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THE

WEEKLY WEATHER REPORT

OF THE

METEOROLOGICAL OFFICE

FOR THE YEAR

1892

(VOL. IX.—THIRD SERIES)

METEOROLOGICAL OFFICE
C

CONTAINING

SYNOPTIC CHARTS,

AND

DESCRIPTIVE SUMMARIES OF THE WEATHER FOR EACH DAY;

ALSO

TABULAR SUMMARIES OF TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE, FOR EACH WEEK,

WITH MONTHLY SUPPLEMENTS AND TWO APPENDICES.

Published by the Authority of the Meteorological Council.

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1893.

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CONTENTS.

	Pages.
Preface (with Tables of Means of Temperature, &c.)	iii
Weekly Reports	1
Supplement:	
Monthly Summaries	i
Appendices:	
I.—Summaries for the Separate Quarters, and for the Year	[1]
II.—Weekly and Progressive Values of the different elements, for 1892	[11]

ERRATA.

Weekly Weather Report, 1891.

Monthly Summary for October.—Rainfall at Waterford, *for* 20 days and 6·20 ins. *read* 18 days and 5·47 ins.

Weekly Weather Report, 1892.

Page 121. Accumulated Temperature from Jan. 3.—In England, East, *for* 107 *read* 207.

„ 151. Do. do. In Midland Counties, *for* 246 *read* 250.

„ 187. Rainfall from Jan. 3.—In Scotland, East, *for* 25·8 ins. and −1·3 ins. *read* 25·6 ins. and −1·5 ins.

„ 217. Bright Sunshine, No. of hours recorded.—In Scotland, East, *for* 1305 and +60 *read* 1306 and +61.

„ 247. Rainfall from Jan. 3.—In Ireland, South. Difference from mean, *for* +1·1 *read* −0·9.

„ 285 and 289. No. of Rainy Days from Jan. 3.—Difference from mean, *for* +18 *read* −18.

Monthly Summary for October.—In Remarks on Pressure, *for* Lowest readings were on 5th or 6th, &c. *read* Lowest readings generally were on 5th or 6th, but in many parts of Scotland the lowest readings occurred on the 9th.

PREFACE.

In the Weekly Weather Report for 1892 there have been no additions to the Tables or Charts; the latter cover the same area as those for last year, viz.: nearly the whole of Europe and the greater part of the Mediterranean. The general arrangement of the weekly Remarks and Tabular matter is unaltered, and will be found on the first and second pages of each Report.

Monthly Summaries of the observations made at the stations included in the Daily and Weekly Weather Reports again appear as a Supplement.

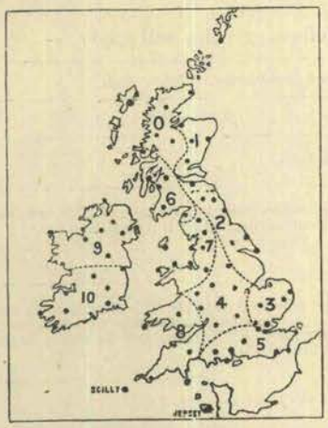
Appendices I. and II. are published, as hitherto,—the former with some slight modification,—but Appendices III. and IV. will not be issued till the close of 1895, when the values will be published for the three lustra 1881–85, 1886–90, 1891–95, and for the whole period of 15 years, 1881–95.

Tables giving the improved Means of Temperature, Rainfall and Bright Sunshine, now used in the preparation of the Weekly Reports and Summaries, will be found at the end of the Preface to the Weekly Weather Report of 1891.

The general arrangement of the Weekly Report is as follows:—

LIST OF DISTRICTS.

For the purposes of this Report the United Kingdom is divided into eleven Districts, which are shown on the accompanying map, distinguished by the numbers 0 to 10. The positions of the stations supplying information are marked on the map by black dots, and their names are given in the following list, arranged under the districts to which they belong:—



METEOROLOGICAL DISTRICTS.

0. SCOTLAND, N.—Sumburgh Head, Stornoway, Wick, Lairg, Glencarron, Fort Augustus, Fort William.

1. SCOTLAND, E.—Nairn, Aberdeen, Braemar, Ochtertyre, Leith, Marchmont.

2. ENGLAND, N.E.—Alnwick Castle, Durham, Shields, Scarborough, York, Spurn Head.

3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.

4. MIDLAND COUNTIES.—Bawtry, Loughborough, Stamford (Ketton Hall), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.

5. ENGLAND, S.—London, North Foreland, Strathfield Turgiss, Dungeness, Hastings (St. Leonard's), Southampton, Hurst Castle, Stowell.

6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Glenlee, Douglas (Isle of Man).

7. ENGLAND, N.W.—Newton Reigny (Penrith), Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.

8. ENGLAND, S.W.—Llandovery, Pembroke, Arlington (N. Devon), Cullompton, Falmouth, Plymouth, Prawle Point.

9. IRELAND, N.—Malin Head, Londonderry, Edenfel, Mullaghmore, Belmullet, Markree Castle, Brookeborough, Armagh, Donaghadee, Edgeworthstown.

10. IRELAND, S.—Dublin, Parsonstown, Kilkenny, Waterford, Roche's Point, Valencia, Killarney, Foynes.

Besides these stations there are two in the Channel Islands, viz., Scilly (St. Mary's), and Jersey (St. Aubin's), which cannot be conveniently placed in any of the Districts. Records of sunshine only are given on the fourth page of each Report from many additional stations.

SUMMARY.

The Summary on the first page of each Report gives for each week and district the absolute *maximum* and *minimum* temperatures observed, the averages of both the daily extremes, the daily mean, and its difference from the average of the corresponding period, as derived from observations of the 20 years 1871–90 together with the values for "Accumulated" temperature above and below 42° F.

Daily Mean Temperature.

The daily mean Temperature shown in the Tables is calculated from the mean between the daily maxima and minima, due regard being had for the varying relation found to subsist, from month to month, between the true mean temperature of the day derived from 24 hourly observations, and the means of the daily maxima and minima for a series of years, as recorded at Greenwich and at the self-registering Observatories of the Meteorological Council.

The approximate Mean Daily Temperature for any week is found by multiplying the *difference* between the means of the seven observed maxima and minima by the proper coefficient for the month, as shown in the following Table, and adding the product to the observed minimum:—

Months.	Coefficient.
January. December.	0·520
February. November.	0·500
March. October.	0·485
April. September.	0·476
May. August.	0·470
June. July.	0·465

Example:

The mean maximum temperature for a week in December being	48°·1
The mean minimum	39·3
The difference is	8·8

This difference 8·8 × ·520 (the coefficient for December) = 4·6.

This product when added to the mean minimum, 39·3, gives 43°·9, the required mean daily temperature of the week.

Accumulated Temperature.

The Tables of Accumulated Temperature are designed to give persons engaged in agriculture better means of estimating the manner in which vegetation is affected by temperature than that afforded by the more usual methods of treating the readings of the thermometer. They show for each week, and for the whole period from the commencement of the year, the weekly and progressive values, respectively, of the combined amount and duration of the excess

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or defect of the air temperature, above or below a suitably fixed standard, or *base temperature*. The base adopted is 42° F., as being nearly equivalent to 6° C. This has been considered by Continental writers on these subjects to be the critical value, the temperature above which is mainly effectual in starting and maintaining the growth, and in completing the ripening, of agricultural crops in a European climate. This base is also convenient as being 10° F. above the freezing point on the Fahrenheit scale.

The Accumulated Temperature is expressed in "Day-degrees,"—a Day-degree signifying 1° F. of excess or defect of temperature above or below 42° F. continued for 24 hours, or any other number of degrees for an inversely proportional number of hours.

When the temperature during any period remains either wholly above or below the base temperature, the difference between the base and the mean temperature gives the correct accumulated temperature. In other cases this difference gives only an approximate value for the accumulated temperature, not departing greatly from the truth—the deviation depending on the greater or less extent of the variations of the temperature above or below the base. Further, since the mean between the maximum and minimum of any day is nearly equal to the mean temperature of the day, the difference of the mean of the maximum and minimum from the base will also give, directly, an approximation to the accumulated temperature for the day.

The following rules, however, supply a still closer approximation to the true values sought, and they have been adopted for the preparation of the Tables in this Report. They may be applied to any other base temperature as well as to 42° F., with the slight modification of the numerical coefficients mentioned below.

RULES for computing, for a WEEKLY PERIOD, from the observed MAXIMA and MINIMA, the ACCUMULATED TEMPERATURE above or below 42° F.

1. Obtain the mean temperature, from the means of the seven observed maxima and minima, in the manner already described for daily values.

2. In obtaining the accumulated temperature four cases may occur, to which the following rules will apply :—

Conditions of Temperature.	To obtain the daily Accumulated Temperature.	
	Above 42° F.	Below 42° F.
If the minimum is *above* 42° F. or *equal* to 42° F. -	Subtract 42° F. from the mean.	There is none.
If the minimum is *below* 42° F., but the mean for the day is *above* 42° F.	From the difference between the mean for the day and the minimum deduct the accumulated temperature below 42° F., calculated as stated in the next column.	The required quantity is the excess of 42° F. over the minimum, multiplied by the coefficient 0·4.
If the mean for the day is *below* 42° F., but the maximum is *above* 42° F.	The required quantity is the excess of the maximum over 42° F., multiplied by the co-efficient 0·4.	From the difference between the mean for the day and the minimum deduct the accumulated temperature above 42° F., calculated as stated in the preceding column.
If the maximum is *below* 42° F., or *equal* to 42° F. -	There is none.	Subtract the mean from 42° F.

In each of the above cases the result will be the average daily value, and must be multiplied by 7 in order to obtain the value for the whole week.

The coefficient varies with the duration of the period, and also with the base temperature.

The coefficient given above, in Rules 2 and 3, is for a weekly period, and for the base temperature 42° F. The following are its values for other base temperatures,—for 32° F., 0·4 ; for 52° F., 0·33 ; for 62° F., 0·25.

A full explanation of the principles on which these rules are based will be found in Appendix II. to the Quarterly Weather Report for 1878.

RAINFALL.

The Summary on the first page of each Report gives for each week and each District the number of rainy days, and the total fall of rain, as well as the progressive values reckoned from the commencement of the year, and the difference between these amounts and the means for the corresponding week in the 25 years 1866–90.

BRIGHT SUNSHINE.

The Summary on the first page gives for each week and each District the numbers of hours of sunshine recorded, and the per-centage of that time to the whole time during which the sun is above the horizon ; also the progressive values reckoned from the commencement of the year, together with the difference between them and the mean for the corresponding period in the ten years 1881 to 1890.

SUPPLEMENT AND APPENDICES.

Supplement.—Consists of twelve Summaries of the results of the Observations made at the Stations included in the Daily and Weekly Weather Reports during each of the Calendar months. Each Summary is illustrated by a lithographed plate.

Appendix I.—This contains (1) Summaries for each Quarter and for the whole year, of the Temperature and Rainfall records for each District, from 1866 to 1892, and (2) Tables giving for each district the monthly values for Rainfall, Accumulated Temperature (above and below 42° F.), and Bright Sunshine, as well as the progressive values for each from the commencement of the year, in continuation of the values given in Appendix I. for last year.

Appendix II. gives for year 1892, and for each District, the weekly and progressive values for Rainy days, Amount of Rainfall, Accumulated Temperature (above and below 42° F.), and Bright Sunshine, in continuation of the values for the years 1878–91 printed in Appendix II. to the Weekly Weather Report for last year.

Tables showing for each degree of Latitude from 49° N. to 58° N., and for each Weekly and Monthly period, the total numbers of hours during which the Sun is above the Horizon, together with their Reciprocals, are given in the Preface to Vol. I., Second Series.

TABLE SHOWING THE REPORTS RECEIVED TOO LATE FOR INSERTION IN THEIR PROPER PLACES.

DATE.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.)								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day Degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Per-centage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
		°	°	°	°	°	°				Inches.	Inches.				
December 31st -	Blackpool - -	36	19	33·2	22·1	27·9	−10·9	0	99	0	—	−0·71	4·8	−1·6	9	−3

N.B.—The values for the earlier weeks have already appeared on the third page of the different weekly reports.

THE following is a LIST of the OBSERVERS who have furnished Information voluntarily for Publication in the WEEKLY WEATHER REPORT, 1892, together with the NAMES of their STATIONS and their ALTITUDE above the MEAN SEA LEVEL :—

Names of Stations.	Altitude above Mean Sea Level.	Names of Observers.	Remarks.
	Feet.		
Alnwick Castle -	210	Lieut.-Col. Holland and Humphrey J. Willyams, for the Duke of Northumberland, K.G.	
Arley Cottage (Co. Cavan).	?	Major S. H. Maxwell, F.R.A.S. -	Sunshine only.
Arlington (North Devon).	613	J. Carter, for Lady Chichester.	
Armagh - - -	207	Staff of Observatory.	
Bawtry (Hesley Hall).	65	B. J. Whitaker, J.P., F. R. Met. Soc.	
Blackpool - - ℳ	31	J. Wolstenholme.	
Braemar - - 𝔖	1,114	J. A. Aitken, J.P.	
Brighton - -	?	A. Newsholme, M.D. - -	Sunshine only.
Brookeborough -	279	Mr. Ferguson, for Sir A. D. Brooke, Bt.	
Cheadle - - - ℳ	646	J. C. Philips.	
Churchstoke - - ℳ	549	P. Wright, F.C.S., F. R. Met. Soc.	
Cirencester - -	446	The Royal Agricultural College.	
Cullompton - - ℳ	202	J. Turner, F. R. Met. Soc.	
Douglas, Isle of Man.	137	A. W. Moore, M.A., J.P.	
Dublin - - -	51	J. W. Moore, M.D., F. R. Met. Soc.	
Durham - - -	335	H. J. Carpenter.	
Eastbourne -	?	Mr. Sheward - - -	Sunshine only.
Edgeworthstown -	265	J. M. Wilson, J.P.	
Edinburgh - -	?	W. M. Mossman - -	Sunshine only.
Falmouth - -	210	Staff of Observatory.	
Fort Augustus - 𝔖	75	Rev. E. G. Cody.	
Fort William - 𝔖	37	R. T. Omond and Angus Rankin.	
Foynes - - -	108	W. Ward, for Lord Monteagle, K.P.	
Geldeston - -	37	E. T. Dowson, F. R. Met. Soc.	
Glasgow - - -	184	Staff of Observatory.	
Glencarron - - 𝔖	504	D. D. Munro, for Lord Maclaren.	
Glenlee - - - 𝔖	230	W. Melville for G. Maxwell.	
Guernsey - -	?	F. E. Carey, M.D., F. R. Met. Soc.	Sunshine only
Hastings - -	116	H. Colborne, M.R.C.S.	
Hereford - - ℳ	274	T. A. Chapman, M.D.	

Names of Stations.	Altitude above Mean Sea Level.	Names of Observers.	Remarks.
	Feet.		
Hillington - - ℳ	88	Rev. H. E. B. Ffolkes, M.A., F. R. Met. Soc.	
Kilkenny - -	212	H. Carlton, for the Marquis of Ormonde, K.P.	
Killarney - -	110	The Ven. Archdeaco Wynne, F. R. Met. Soc.	
Lairg - - - 𝔖	335	T. Young, Schoolmaster.	
Laudale - - -	14	A. Fletcher, for T. G. H. Newton, M.A., F. R. Met. Soc.	
Llandovery - -	217	J. Watkins, F. R. Met. Soc.	
Llandudno - - ℳ	79	J. Nicol, M.D., F. R. Met. Soc.	
Londonderry -	93	J. Conroy, F. R. Met. Soc.	
Marchmont - - 𝔖	500	P Loney, for Sir H. P. Campbell, Bt.	
Margate - - -	?	J. Stokes, F. R. Met. Soc. -	Sunshine only.
Markree Castle -	131	A. Marth, F.R.A.S., for Col. Cooper, F.R.A.S.	
Newquay - -	200	J. Pearce - - - -	Sunshine only.
Newton Reigny -	578	T. G. Benn, F. R. Met. Soc.	
Ochtertyre - - 𝔖	333	G. Croucher.	
Oswaldkirk - -	?	R. Thompson - - -	Sunshine only.
Plymouth - -	125	H. N. Dickson.	
Prestwich - -	294	T. R. H. Clunn, M.D., F. R. Met. Soc.	
Rothamsted - -	368	Sir J. B. Lawes, Bart., LL.D., F.R.S., Sir J. H. Gilbert, Ph. D., F.R.S., and T. Wilson, F. R. Met. Soc.	
Scarborough - - ℳ	157	W. Robinson.	
Southampton -	74	J. T. Cook, R.E., the Ordnance Survey Office.	
Stonyhurst - -	360	Staff of Observatory.	
Stowell - - - ℳ	376	Rev. H. J. Poole, F. R. Met. Soc.	
Strathfield Turgiss ℳ	195	Rev. C. H. Griffith, M.A.	
Tenby - - -	?	J. E. Gower - - -	Sunshine only.
Thurcaston - -	?	Rev. T. A. Preston, M.A., F. R. Met. Soc.	Sunshine only.
Torquay - -	?	A. Chandler, F. R. Met. Soc. -	Sunshine only.
Waterford - -	104	C. Perceval Bolton, J.P.	
Westbourne -	?	L. B. Birkett - - -	Sunshine only.
Worksop - -	?	H. Mellish, J.P., F. R. Met. Soc.	Sunshine only.

Stations marked "ℳ" report through the Royal Meteorological Society; those marked "𝔖" through the Scottish Meteorological Society.

WEEKLY WEATHER REPORT.

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VOL. IX. No. 1.] *Third Series.* WEEK ENDING SATURDAY, 9TH JANUARY, 1892. [*Price 6d.* [*Annual subscription, post paid, £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years' observations (1871-90). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the ten years 1881-90. RAINFALL.—*The Mean amounts* are those for the corresponding periods in the twenty-five years 1866-90, but the *Mean numbers of Rainy Days* are those for the ten years 1881-90, only. BRIGHT SUNSHINE.—*The Mean values* employed are those for the corresponding periods in the ten years 1881-90.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

DISTRICTS. (See p. 2.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1892. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts. 0. SCOTLAND, NORTH	47	18	36·6	26·6	31·8	7 below.	0	− 8	71	+38	0	− 7	71	+ 41
1. SCOTLAND, EAST	45	18	37·8	26·5	32·4	5 below.	0	− 8	67	+27	0	− 6	67	+ 26
2. ENGLAND, N.E.	45	17	37·5	27·0	32·4	6 below.	0	− 7	67	+30	0	− 6	67	+ 30
3. ENGLAND, EAST	43	15	37·0	25·7	31·6	6 below.	0	− 7	73	+30	0	− 9	73	+ 30
4. MIDLAND COUNTIES	44	8	37·0	25·8	31·6	6 below.	0	− 9	78	+30	0	−10	73	+ 29
5. ENGLAND, SOUTH	48	22	39·8	28·4	34·3	5 below.	0	−10	54	+22	0	−11	54	+ 25
Principal Grazing, &c., Districts. 6. SCOTLAND, WEST	46	17	38·4	28·8	33·8	6 below.	0	−10	57	+28	0	− 8	57	+ 27
7. ENGLAND, N.W.	45	14	38·6	30·0	34·5	5 below.	0	− 8	53	+22	0	− 9	53	+ 23
8. ENGLAND, S.W.	48	6	40·6	31·0	35·9	6 below.	0	−15	43	+21	0	−14	43	+ 24
9. IRELAND, NORTH	47	18	39·8	30·4	35·1	5 below.	0	−14	48	+22	0	−14	48	+ 25
10. IRELAND, SOUTH	48	16	39·9	30·5	35·4	7 below.	0	−20	46	+26	0	−20	46	+ 31
— CHANNEL ISLANDS	51	28	45·4	36·1	40·9	4 below.	10	−13	24	+15	10	−13	24	+ 15

Rainfall.

DISTRICTS. (See p. 2.)	For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1892. Number of Rainy Days.	Difference from Mean.	Total Fall.	Difference from Mean.
		10ths of In.	10ths of In.			Ins.	Ins.
Principal Wheat-producing Districts. 0. SCOTLAND, NORTH	7	14	3 more.	7	+ 2	1·4	+ 0·3
1. SCOTLAND, EAST	4	6	0 (average)	4	+ 1	0·6	0·0
2. ENGLAND, N.E.	4	6	1 more.	4	+ 1	0·6	+ 0·1
3. ENGLAND, EAST	4	4	1 less.	4	0	0·4	− 0·1
4. MIDLAND COUNTIES	5	4	2 less.	5	+ 2	0·4	− 0·2
5. ENGLAND, SOUTH	4	2	5 less.	4	+ 1	0·2	− 0·5
Principal Grazing, &c., Districts. 6. SCOTLAND, WEST	5	8	6 less.	5	0	0·8	− 0·6
7. ENGLAND, N.W.	6	9	1 more.	6	+ 2	0·9	+ 0·1
8. ENGLAND S.W.	5	5	5 less.	5	+ 1	0·5	− 0·5
9. IRELAND, NORTH	7	11	3 more.	7	+ 2	1·1	+ 0·3
10. IRELAND, SOUTH	4	4	6 less.	4	0	0·4	− 0·6
— CHANNEL ISLANDS	7	7	2 less.	7	+ 2	0·7	− 0·2

Bright Sunshine.

DISTRICTS. (See p. 2.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1892. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts. 0. SCOTLAND, NORTH	5	− 3	11	− 5	5	0	11	+ 1
1. SCOTLAND, EAST	12	+ 4	25	+ 7	12	+ 2	25	+ 5
2. ENGLAND, N.E.	14	+ 7	27	+14	14	+ 8	27	+15
3. ENGLAND, EAST	14	+ 5	26	+10	14	+ 4	26	+ 8
4. MIDLAND COUNTIES	18	+ 9	34	+19	18	+ 9	34	+18
5. ENGLAND, SOUTH	17	+ 8	31	+17	17	+ 8	31	+14
Principal Grazing, &c., Districts. 6. SCOTLAND, WEST	16	+ 9	31	+18	16	+10	31	+19
7. ENGLAND, N.W.	13	+ 5	26	+12	13	+ 6	26	+13
8. ENGLAND S.W.	14	+ 4	25	+10	14	+ 3	25	+ 4
9. IRELAND, NORTH	14	+ 4	27	+ 8	14	+ 4	27	+ 7
10. IRELAND, SOUTH	13	+ 1	25	+ 4	13	0	25	0
— CHANNEL ISLANDS	12	− 2	20	− 2	12	− 5	20	−10

Bright Sunshine.—For several of the stations there are no "mean" values available, and the "difference from the mean" in some of the districts is consequently that of only a few of the stations.

General Remarks.

Weather during this period was very cold and rough in all the northern parts of the Kingdom, and falls of snow (sometimes heavy) were of almost daily occurrence. In the more southern districts the conditions were more quiet, the snow less frequent, and, as a rule, not heavy.

Temperature was much below the mean in all districts, the deficit being generally about 5° or 6°; in Scotland N. and Ireland S., however, it amounted to 7°. The highest of the maxima occurred during the earlier half of the week, and ranged from 51° in the Channel Islands to 43° in England E. Towards the end of the period the daily maxima were much lower, in many instances they did not reach 32°. The lowest of the minima were generally recorded either on the 8th or 9th; they ranged from 6° in England S.W. (at Llandovery), and 8° in the Midland Counties (at Bawtry), to between 14° and 18° in most other districts, and to 28° in the Channel Islands.

Rainfall exceeded the mean in Scotland N., England N.E. and N.W., and Ireland N., and equalled it in Scotland E. In all other districts there was a deficit, especially over the south-western parts of the Kingdom, where the total fall was only about one-half the average.

Bright Sunshine was rather below the mean in Scotland N. and the Channel Islands, but in all other parts of the Kingdom it was above. The percentage of the possible duration ranged from 34 in the Midland Counties and 31 in England S. and Scotland W., to 20 in the Channel Islands and to 11 in Scotland N.

Barometer and Wind.—Barometrical pressure was generally highest in the west and south-west, while some large and deep depressions moved south-eastwards over the northern parts of the North Sea and Scandinavia. North-Westerly and Northerly winds were consequently most prevalent over our Islands; they were strong to a gale in the north and north-west, but at our more southern and south-western stations they were generally light or moderate in force.

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II.– DATA from which the SUMMARY on page 1 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head Ꞩ	38	22	35·6	28·6	32·2	− 7·1	0	69	7	0·72	−0·16	*	*	*	*
	Stornoway Ꞩ	43	23	37·6	26·7	32·4	− 6·6	0	67	7	1·36	+0·15	3·1	− 2·9	7	− 5
	Wick Ꞩ	40	23	36·4	25·7	31·3	− 6·6	0	75	7	1·71	+1·20	*	*	*	*
	Lairg Ꞩ	41	18	34·9	24·2	29·3	− 6·4	0	85	7	1·95	+1·15	*	*	*	*
	Glencarron Ꞩ												*	*	*	*
	Fort Augustus Ꞩ	43	20	33·6	25·7	31·4	− 7·2	0	74	7	1·70	+0·64	4·9	?	10	?
	Fort William Ꞩ	47	22	38·3	28·6	33·6	− 5·9	0	59	7	1·03	−1·16	7·9	?	17	?
1. SCOTLAND, E.	Nairn Ꞩ	44	20	37·1	25·4	31·5	− 6·1	0	74	6	1·23	+0·77	*	*	*	*
	Aberdeen Ꞩ	43	23	38·1	27·6	33·1	− 4·8	0	62	7	0·85	+0·29	13·5	+ 2·7	29	+ 7
	Braemar Ꞩ	41	18	35·6	25·1	30·5	− 4·2	0	81	6	1·20	+0·51	4·5†	? †	10†	?†
	Ochtertyre Ꞩ	45	22	39·0	26·1	32·8	− 3·8	0	64	4	0·07	−1·04	*	*	*	*
	Leith Ꞩ	45	27	39·1	29·0	34·3	− 4·8	0	54	1	0·07	−0·38	*	*	*	*
	Marchmont Ꞩ	43	22	37·7	25·3	31·9	− 4·7	0	71	2	0·38	−0·26	18·5	?	38	?
2. ENGLAND, N.E.	Alnwick Castle	45	26	37·4	28·9	33·3	− 4·6	0	61	5	0·65	+0·10	*	*	*	*
	Durham	44	17	37·2	23·5	30·6	− 6·4	0	80	5	1·45	+0·91	14·8	+ 5·1	29	+11
	Shields	44	22	37·9	26·3	32·3	− 6·2	0	68	3	0·75	+0·30	*	*	*	*
	Scarborough ℳ	43	21	37·2	26·9	32·3	− 6·3	0	68	5	0·42	−0·06	*	*	*	*
	York	45	19	37·7	27·4	32·3	− 5·3	0	68	3	0·08	−0·36	?	?	?	?
	Spurn Head	41	25	37·3	30·0	33·8	− 4·6	0	57	2	0·12	−0·24	*	*	*	*
3. ENGLAND, E.	Hillington ℳ	41	16	37·4	24·9	31·4	− 5·6	0	74	3	0·31	−0·18	14·3	+ 4·9	27	+10
	Yarmouth	41	24	35·7	27·3	31·7	− 6·2	0	72	4	0·43	−0·06	*	*	*	*
	Geldeston	42	19	37·9	25·7	32·0	− 6·2	0	70	4	0·38	−0·01	15·2	+ 3·8	28	+ 7
	Cambridge	43	18	37·1	25·1	31·3	− 6·1	0	75	5	0·39	+0·01	?	?	?	?
	Rothamsted	42	15	37·1	25·3	31·4	− 6·0	0	74	4	0·27	−0·31	12·9	?	24	?
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	44	8	36·1	21·7	29·2	− 8·2	0	90	5	0·11	−0·36	*	*	*	*
	Loughborough	42	21	36·6	27·4	32·2	− 5·6	0	69	5	0·34	−0·13	*	*	*	*
	Stamford (Ketton Hall)	42	16	36·3	25·3	31·0	− 6·4	0	77	5	0·47	−0·01	*	*	*	*
	Cheadle ℳ	42	19	35·6	23·9	30·0	− 6·6	0	74	5	0·91	+0·26	*	*	*	*
	Churchstoke ℳ	42	16	37·6	24·8	31·5	− 6·6	0	74	5	0·77	+0·09	17·1	+ 7·5	32	+15
	Hereford ℳ	44	22	38·5	29·5	34·2	− 4·4	0	55	4	0·17	−0·40	*	*	*	*
	Cirencester	43	21	37·6	26·1	32·1	− 5·5	0	69	3	0·10	−0·60	?	?	?	?
	Oxford	42	25	37·3	27·9	32·8	− 5·5	0	64	4	0·16	−0·34	18·4	+ 9·6	34	+18
5. ENGLAND, S.	London	44	23	38·9	27·4	33·4	− 5·3	0	60	4	0·13	−0·36	8·6 †	+ 3·2†	16†	+8†
	North Foreland	44	27	39·0	29·3	34·3	− 5·0	0	54	3	0·05	?	*	*	*	*
	Strathfield Turgiss ℳ	45	23	38·0	26·6	32·5	− 5·4	0	67	4	0·28	−0·26	*	*	*	*
	Dungeness	48	22	41·7	26·4	34·4	− 5·6	0	53	4	0·10	−0·50	*	*	*	*
	Hastings (St. Leonards)	45	24	40·0	29·1	34·3	− 5·3	0	50	5	0·26	−0·40	21·6	+ 8·9	39	+17
	Southampton	47	25	41·3	28·8	35·3	− 4·8	0	47	2	0·08	−0·67	23·5	+13·5	43	+25
	Hurst Castle	47	24	41·0	31·0	36·2	− 4·6	0	41	3	0·08	−0·57	*	*	*	*
	Stowell ℳ	45	25	38·4	28·7	33·7	− 4·8	0	58	4	0·33	?	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	46	17	38·4	27·5	33·2	− 6·9	0	62	6	1·87	−0·21	*	*	*	*
	Glasgow	44	24	37·2	28·5	33·0	− 5·4	0	63	5	0·13	−0·81	11·4	+ 7·2	23	+15
	Ardrossan	46	26	39·1	30·4	34·9	− 5·4	0	50	4	0·28	−0·65	*	*	*	*
	Glenlee Ꞩ	46	20	37·1	26·8	32·2	− 5·2	0	69	4	0·49	−1·21	*	*	*	*
	Douglas (Isle of Man)	45	26	40·1	30·9	35·7	− 4·8	0	44	7	0·97	−0·08	20·3	+11·1	39	+23
7. ENGLAND, N.W.	Newton Reigny	42	14	35·9	24·7	30·5	− 6·4	0	81	4	0·23	−0·60	20·4	+12·5	49	+25
	Stonyhurst	42	20	36·6	26·6	31·8	− 6·1	0	71	5	0·51	−0·48	17·1	+10·7	33	+20
	Blackpool ℳ	44	25	39·1	30·4	34·9	− 3·6	0	50	5	1·04	+0·35	6·2	− 0·4	12	0
	Manchester	43	24	37·3	28·9	33·3	− 4·5	0	61	6	1·27	+0·52	*	*	*	*
	Liverpool Obsy. (Bidston)	46	25	39·1	31·7	35·6	− 4·0	0	45	5	0·80	+0·28	*	*	*	*
	Llandudno ℳ	45	29	41·0	32·9	37·1	− 4·5	0	34	7	1·21	+0·54	9·4	+ 2·5	18	+ 5
	Holyhead	46	30	41·4	34·9	38·3	− 4·2	0	26	7	0·90	+0·09	*	*	*	*
8. ENGLAND, S.W.	Llandovery	45	6	36·7	24·6	30·9	− 9·5	0	78	6	0·71	−0·50	*	*	*	*
	Pembroke	48	26	42·3	35·4	39·0	− 3·9	1	24	5	0·49	−0·39	9·9	− 0·7	18	− 3
	Arlington (N. Devon)	44	24	39·4	30·7	35·2	− 4·7	0	48	2	0·26	−0·84	*	*	*	*
	Cullompton ℳ	45	22	40·2	27·8	34·3	− 5·6	0	54	4	0·55	− 0·24	17·0	+ 9·2	31	+17
	Falmouth	48	30	42·7	34·0	38·5	− 5·6	2	30	7	0·93	−0·30	17·3	+ 6·5	30	+11
	Plymouth	48	27	41·6	32·5	37·2	− 4·9	0	34	6	0·30	−0·60	17·1	+ 7·1	30	+13
	Prawle Point	46	25	41·0	31·7	36·5	− 5·7	0	39	6	0·15	- 0·59	*	*	*	*
9. IRELAND, N.	Malin Head	45	?	40·4	?	?	?	?	?	6	0·18	?	*	*	*	*
	Londonderry	46	26	42·4	30·0	36·5	− 3·7	1	44	7	1·99	+1·08	*	*	*	*
	Mullaghmore	46	29	40·6	33·1	37·0	− 5·1	0	35	7	0·77	−0·23	*	*	*	*
	Belmullet	47	29	40·7	33·3	37·2	− 6·0	0	34	7	1·45	?	*	*	*	*
	Markree Castle	46	22	40·1	28·6	34·6	− 5·1	0	52	7	1·23	+0·45	11·0	+ 1·8	21	+ 5
	Brookeborough	45	20	38·6	26·5	32·8	− 5·5	0	64	6	1·02	+0·02	*	*	*	*
	Armagh	45	18	38·1	26·6	32·6	− 6·3	0	66	6	0·76	+0·11	14·8	+ 5·4	28	+12
	Donaghadee	45	29	38·0	31·7	35·0	− 5·4	0	49	7	1·47	+0·82	*	*	*	*
	Edgeworthstown												*	*	*	*
10. IRELAND, S.	Dublin	45	24	39·0	28·9	34·2	− 7·6	0	55	5	0·28	−0·23	20·7	+ 9·1	39	+23
	Parsonstown	46	24	38·1	29·4	33·9	− 6·0	0	57	1	0·16	−0·54	11·6	+ 1·1	22	+ 3
	Kilkenny	45	23	37·3	29·3	33·5	− 7·5	0	60	4	0·13	−0·66	*	*	*	*
	Waterford	46	26	38·9	30·6	34·9	− 7·6	0	50	1	0·04	−0·96	*	*	*	*
	Roche's Point	48	28	41·1	33·3	37·4	− 6·4	0	32	2	0·07	−1·13	*	*	*	*
	Valencia	48	32	44·1	35·3	39·9	− 5·2	6	26	7	1·09	−0·40	7·6	− 4·4	14	− 7
	Killarney	46	16	40·6	26·7	33·9	− 9·3	0	57	5	0·94	?	*	*	*	*
	Foynes	46	25	40·1	30·2	35·4	− 6·9	0	46	4	0·29	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	49	32	44·0	37·1	40·7	− 5·4	6	20	6	0·49	−0·39	*	*	*	*
	Jersey	51	28	46·7	35·0	41·1	− 1·5	13	30	7	0·83	+0·05	12·8	− 1·7	22	− 2

Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked Ꞩ with the Scottish Meteorological Society.

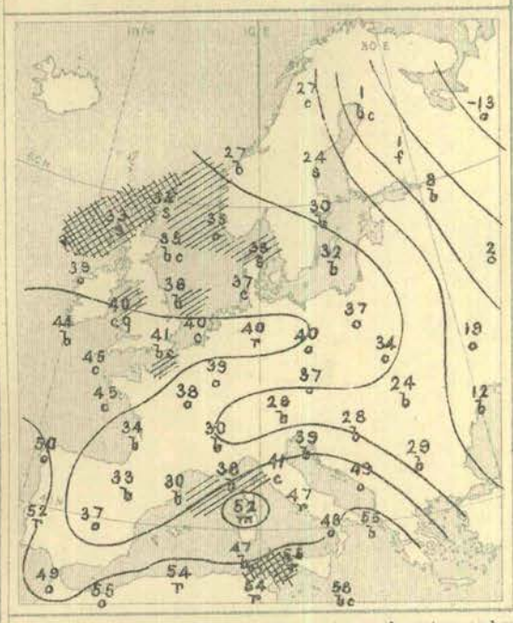
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory and the Meteorological Office, Victoria Street. For additional Reports of Sunshine see last page.

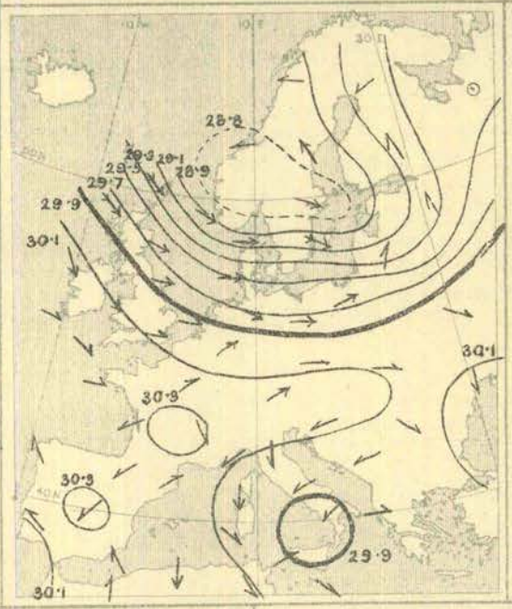
III.—SUMMARY OF WEATHER OVER EUROPE.

Sunday, 3rd January.

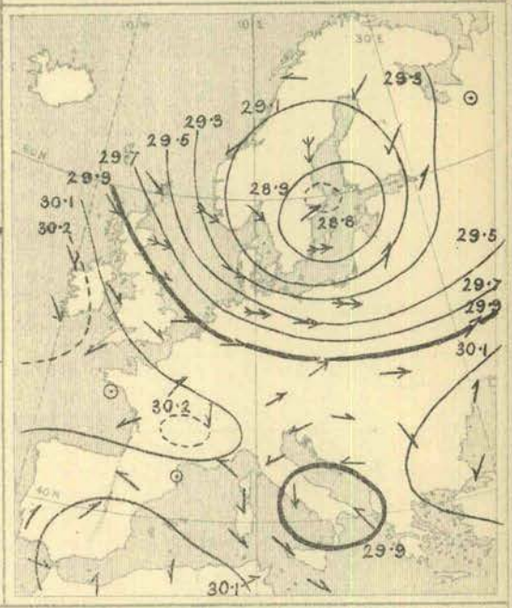
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair generally over the south-western and southern parts of our Islands, as well as over France, south Germany, and the greater part of the Mediterranean; fine also over Lapland and the north of Norway. Very rough, unsettled and squally over Scotland, the North Sea, the Baltic, and south of Scandinavia, with snow and sleet in many places, cold rain in others. Sleet and cold rain showers in most parts of north-western Europe later, followed by drier and colder weather; considerable rain in the south of Italy.

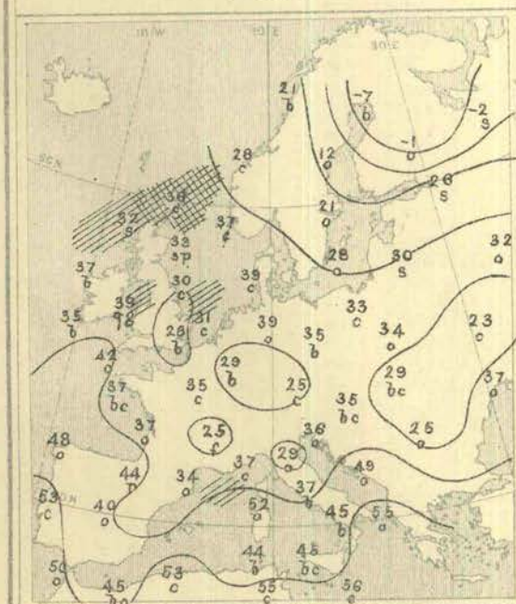
Temperature risen over Germany, France, and the south of our Islands, fallen elsewhere. Morning readings exceeding 50° on the southern shores of the Mediterranean and on the Portuguese coast, exceeding 40° on the south-western and southern coasts of our Islands and the north coasts of France, lower elsewhere. Lowest, −13° Fahr. at Archangel, −2° at Uleaborg, +1° at Kuopio, 2° at Moscow, 8° at St. Petersburg, 9° at Kharkov, 12° at Odessa, 28° at Buda-Pesth and Munich, 33° at the Scaw, Leith, and Shields, and 35° at York. Rising to between 40° and 48° over England during day, to 50° and more in the south of France, and to 60° and more over Algeria and the south of Italy, but becoming frosty and keen at night.

Wind light and anticyclonic over south-western, central, and south-eastern Europe; moderate and cyclonic over the Mediterranean (North-Easterly to Northerly over the northern parts, Westerly in the south), moderate Westerly to North-Westerly over England, strong to a strong gale from North-West over Scotland, and from West over the North Sea and Baltic; strong gale from North-West over Scotland, and from West over the northern half of Scandinavia. Southerly over the Gulf of Finland, moderate Easterly over the northern half of Scandinavia. Veering Northwards and moderating over our Islands later, but still blowing a gale over the northern parts of the North Sea and in Sweden.

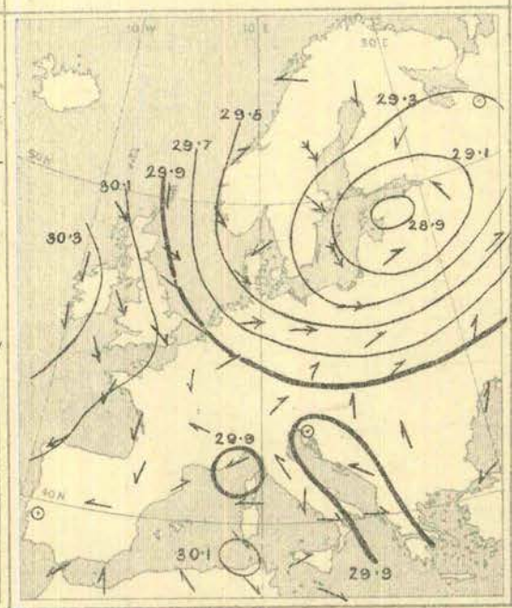
Barometer highest, (1) 30·3 ins. and more to 30·1 ins. over the greater part of France, south Germany, Spain, and Algeria; (2) 30·1 ins. and more to 30·0 ins. over the Black Sea and south of Russia. Lowest, 28·8 ins. and less in a complex depression over Scandinavia. Gradients very steep over Scotland, the North Sea, Denmark, and the Baltic, moderate to slight elsewhere. Rising over the northern parts of our Islands later, falling in the south and over France, as well as over central and eastern Europe.

Monday, 4th January.

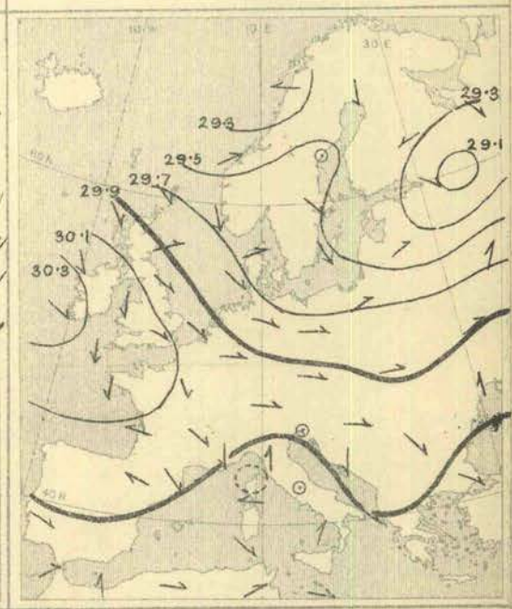
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over England and Ireland, fair generally over France, fine over Italy and Algeria, as well as over Lapland; cloudy or overcast elsewhere, and very unsettled over Finland, the Baltic, and the north of Scotland; sleet or snow at many stations in the last-named regions, as well as at Nicolaieff. Snow falling later in Norway, Scotland, and the north of Ireland, as well as at some of our south-western stations; cold showers in several parts of France and Germany also, and further falls of rain over southern and south-eastern Europe.

Temperature low generally; morning readings exceeding 55° on the coast of Algeria, Malta, and southern Italy, and above 50° in the south-west of Spain. Exceeding 40° in the west of France, at Jersey and Scilly, much lower elsewhere. Lowest of all, (1) −7° at Haparanda, −1° at Kuopio, +2° at Archangel, 12° at Hernösand, 20° at Hangö; (2) 2·°at Kharkov, 25° at Hermanstadt, Munich, and Lyon; (3) 26° at Loughborough, 27° at Cambridge and Dungeness, 28° in London and at Oxford, 29° at Parsonstown. Rising later to above 40° on the Scotch, Irish, some of the English, and the French coasts; reaching 56° at Perpignan and 59° at Lisbon, and 60° or more over southern Italy and Algeria. Remaining low over central and eastern England.

Wind North-Westerly over the British Islands—light at the southern stations, strong in the north-west and north; strong North-Westerly over the North Sea, Westerly over Germany, South-Westerly over the Baltic Provinces, Easterly (very light) over Finland, but blowing a gale from North-West on the Swedish coast. Light and very variable breezes reported over southern, central, and eastern Europe. Backing somewhat in Scotland later, and decreasing temporarily in force; gales over Baltic dying down.

Barometer highest, 30·3 ins. and more to 30·0 ins. in the eastern portion of an anticyclone spreading in from the Atlantic over the greater part of our Islands, France, and Spain, and exceeding 30·0 ins. over Algeria, as well as over the Black Sea and southern Russia. Lowest, (1) 28·9 ins. and less in a depression covering Finland, the Baltic, and the Baltic Provinces; (2) 29·9 ins. and less in a shallow one over the Riviera, as well as over Dalmatia and the Adriatic. Beginning to fall again in Scotland later, but rising over the south of England, France, central and eastern Europe.

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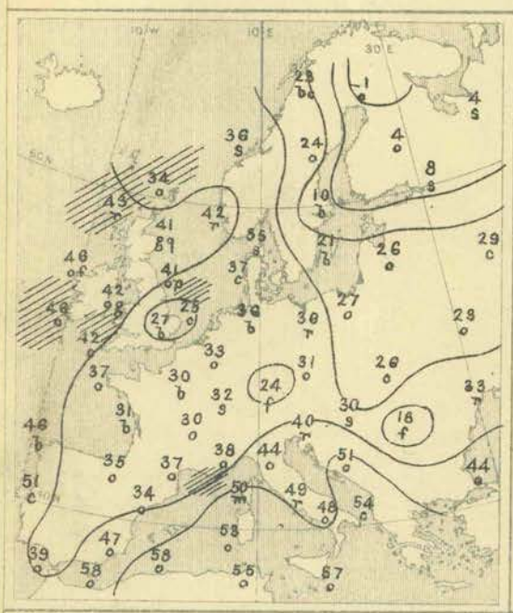
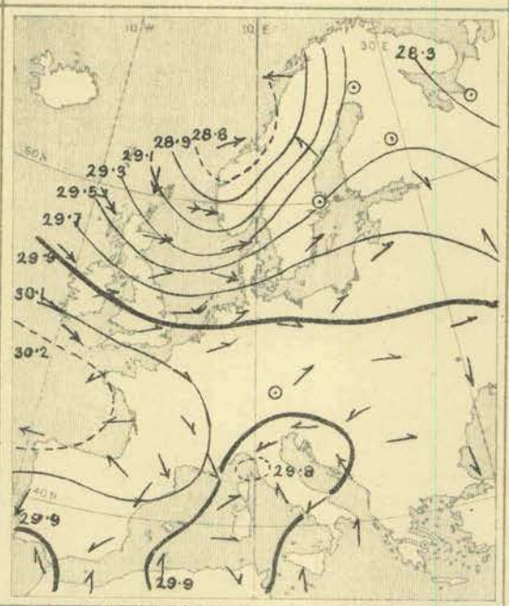
III.—SUMMARY OF WEATHER OVER EUROPE.

Tuesday, 5th January.

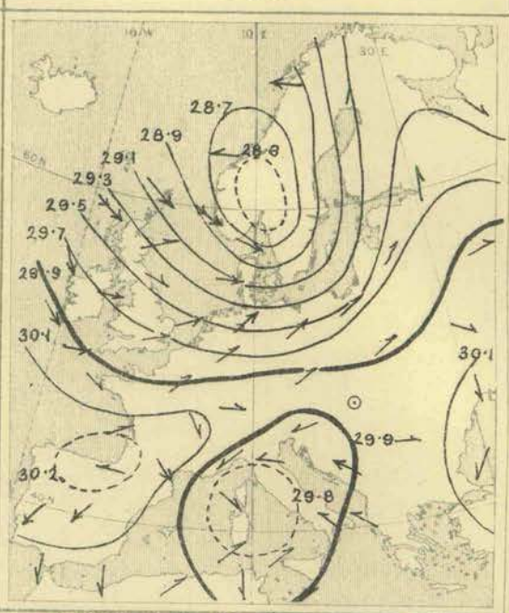
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright in some parts of Spain, France, and England, cloudy or overcast elsewhere and foggy at several stations in central Europe; snow, sleet, or rain falling in many places over the British Islands, north-western and northern Europe, as well as in Austria and the south of Russia. The rainfall (snow, rain, &c.) proving very slight over the United Kingdom, but considerable at several European stations—notably in the Netherlands and northern Germany, as well as at Cape Sicié, Rome, and La Calle.

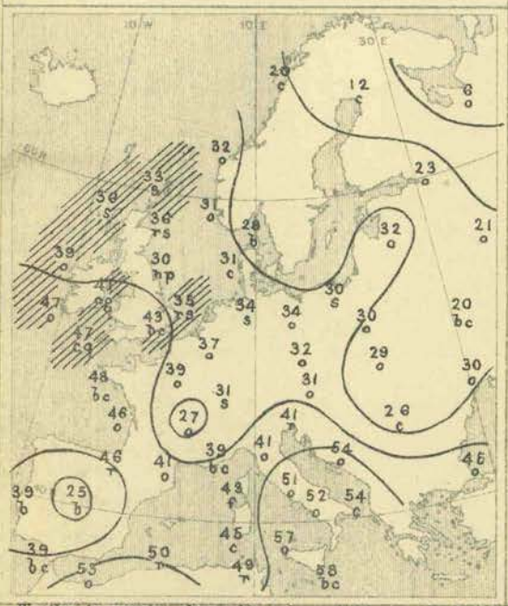
Temperature changing very fitfully, but low in all but the western and northern parts of the Kingdom. Above 50° on southern side of the Mediterranean, at Lésina, and Lisbon, and above 40° on the Irish and Scotch coasts and at Skudesnaes. Lowest, −1° Fahr. at Haparanda, +4° at Uleaborg and Archangel, 8° at St. Petersburg, 10° at Stockholm, 14° at Hangö, 23° at Kiev, 24° at Cracow and Munich, 27° in London, 30° at Paris. Rising later to between 40° and 49° over the greater part of our Islands, remaining very low over the inland parts of the Continent.

Wind Westerly to North-Westerly over the British Islands, and blowing a gale or strong breeze at the northern stations; Westerly over the North Sea and Germany, South-Westerly to South-Easterly over the Baltic, Easterly at Bodö. Very light, and in many places variable, over south-western, southern, central, and eastern Europe, but strong North-East to North-West in the south of France. Becoming more Northerly in Ireland and Scotland later, but backing to South-West over England and Germany, and increasing generally; Southerly gales setting in over Gulf of Finland.

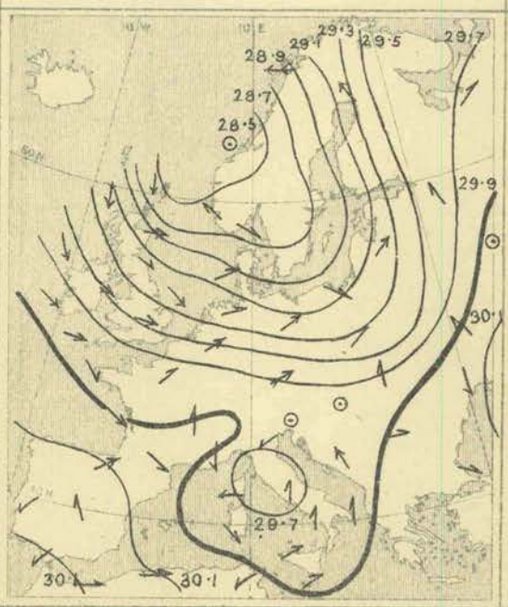
Barometer highest, 30·2 ins. to 30·0 ins. in an anticyclone spreading in from the Atlantic over western Europe, and exceeding 30·0 ins. over south-eastern Europe also. Lowest, 28·9 ins. and less in a deep depression off the west of Norway, and 29·8 ins. and less in a shallow one over the Gulf of Genoa. Northern depression moving south-eastwards later, but spreading out south-westwards over the British Islands as it did so.

Wednesday, 6th January.

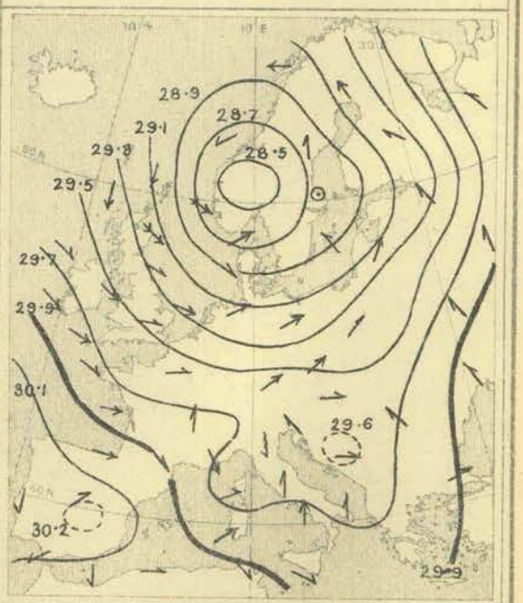
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning changeable and unsettled over the British Islands, western and northern Europe generally; less disturbed in the south and over the Mediterranean, foggy over southern Russia, fine and bright over Spain. Showers of snow, sleet, hail, or cold rain in almost all parts of our Islands and neighbouring countries (our north-eastern counties escaping), sky in London being sometimes densely overcast, at others clear and bright. Snow falling at many of the Russian stations—heavily at Kuopio.

Temperature changing very fitfully—risen in France and the south of England, and also in the north of Russia, fallen over our northern districts and the North Sea, and fall spreading southwards. Morning readings below 50°, except on the southern and eastern shores of the Mediterranean, but above 40° on the Atlantic coasts of France and our Islands, lower elsewhere. Lowest, (1) 6° at Archangel, 12° at Uleaborg and at Kharkov, 20° at Kiev, 21° at Moscow, 28° at St. Petersburg, 25° at Cracow, and 26° at Hermanstadt; (2) 30° to 32° over our north-eastern counties, 33° at Sumburgh Head and Aberdeen, and 34° at Liverpool and Nairn. Falling over Ireland and England towards night, tending to recover in Scotland.

Wind (1) strong to a gale from North and North-West over the United Kingdom, moderate Westerly over the North Sea, fresh South-Westerly over Germany, strong to a gale from the Southward on the eastern shores of the Baltic, and from East in Lapland; (2) light and variable over the Spanish Peninsula, and also over south-eastern Europe, but a well-marked cyclonic circulation prevailing over the Mediterranean, and blowing a moderate gale at Palermo. Subsequently increasing to gale from South-West or West in the south of Norway, but wind tending to subside on our own northern coasts.

Barometer highest, 30·1 ins. and more to 30·0 ins. over the Iberian Peninsula and Algeria, also over the Black Sea and southern Russia. Lowest, 28·5 ins. and less to 28·9 ins. in a large depression lying over Scandinavia and the north-eastern parts of the North Sea, and 29·7 ins. and less in another lying over Corsica and the western parts of Italy. Scandinavian depression moving eastwards later, but secondary disturbances beginning to approach our northern coasts from the north-westward.

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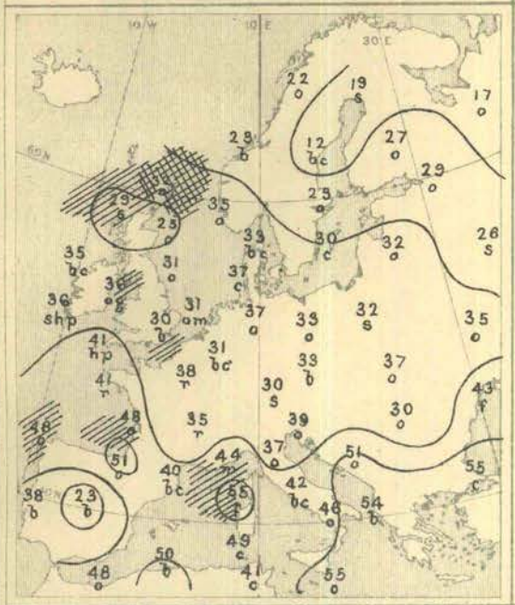
III.—SUMMARY OF WEATHER OVER EUROPE.

Thursday, 7th January.

Temperature and Weather.

8 a.m.

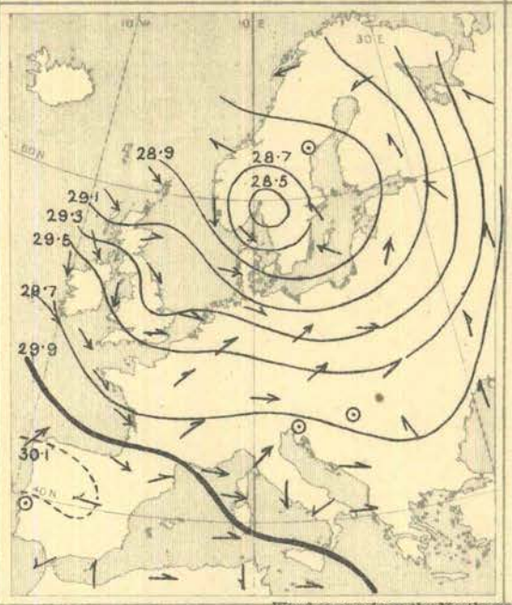


Weather fair in the eastern and south-eastern parts of Great Britain, as well as over the greater part of southern Europe. Cloudy or overcast elsewhere, with snow and hail showers in the west and north-west of our Islands; snow falling also at several of the Scandinavian and Russian stations and rain over central France. Heavy snow during day in the extreme north and north-west of the United Kingdom, and showers in most other parts of Europe generally, rain over central Algeria.

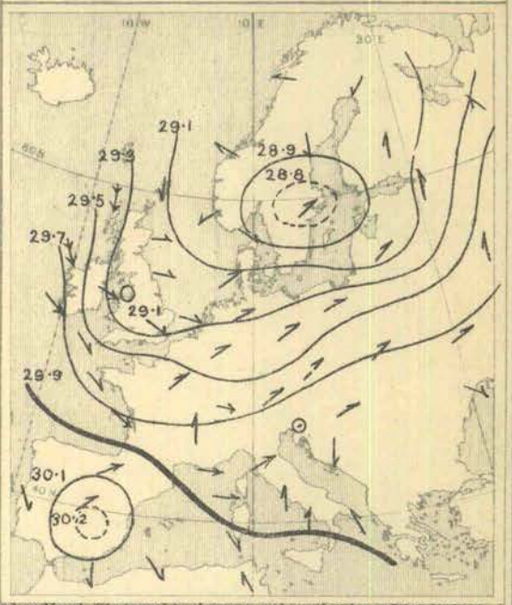
Temperature highest, 55° at Sanguinaire and Malta, 54° at Brindisi, 52° at Leghorn, and 51° at Biarritz; above 45° over the Mediterranean and Bay of Biscay generally, and above 40° over the western parts of the English Channel. Lowest, (1) 12° at Hernösand, 17° at Archangel, and 19° at Haparanda; (2) 23° at Nairn, 24° at Wick, and 25° at Aberdeen; (3) 23° at Madrid. Daily maxima very little above 35° in any part of Great Britain, but thermometer reaching 50° in the west of France, 55° at Nice, and 59° at Perpignan and some stations in Italy, and exceeding 60° on parts of the Algerian coast.

Barometer and Wind.

8 a.m.



6 p.m.



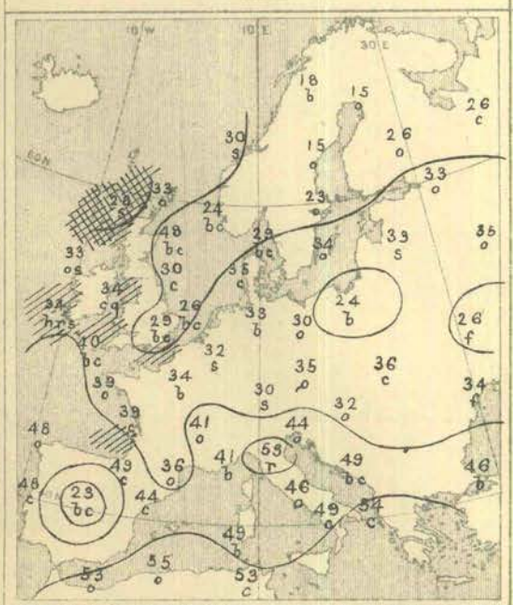
Wind strong from the Northward or North-Westward in the west and north of our Islands, fresh from North-West or West over the Channel and Bay of Biscay, light or moderate from the Westward in the east of Great Britain; South-Westerly over central France, Belgium, and Germany, Southerly in Russia, Easterly in Scandinavia; Westerly or North-Westerly over Denmark and the south of Norway, and blowing a gale in the Christiania Fiord. Variable over southern Europe and Algeria. Subsequently increasing to a strong or whole gale from the Northward in the west of Scotland and the north of Ireland, and to a fresh gale from North-West at some of our south-western stations, but shifting Southwards, very temporarily, over Cheshire and our midland counties.

Barometer highest, 30·1 ins. and upwards over the western and central parts of the Spanish Peninsula; 29·9 ins. and upwards over the south of Russia. Lowest, 28·4 ins. and less in a well-marked depression having its centre near Christiania; 29·0 ins. and less in a secondary disturbance lying off the north of Scotland. Latter system subsequently travelling southwards to the Irish Sea, barometer in meantime falling steadily over England, but rising quickly in the west of Scotland; Scandinavian disturbance moving eastwards and beginning to fill up.

Friday, 8th January.

Temperature and Weather.

8 a.m.

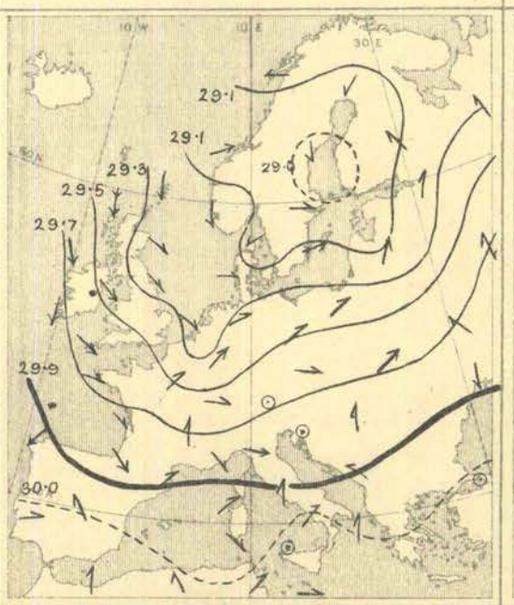


Weather in morning still very foggy over the southern parts of Russia, clear and bright over some parts of France and England, but changeable in most countries. Snow falling in several parts of the British Isles, France, Scandinavia, and the Baltic. Considerable falls of snow later over Scotland, the north of Ireland, and the north-western parts of England, as well as in northern Russia and Germany; smaller quantities elsewhere; much rain in the south-west of France and at Leghorn, smaller quantities on the Algerian coast.

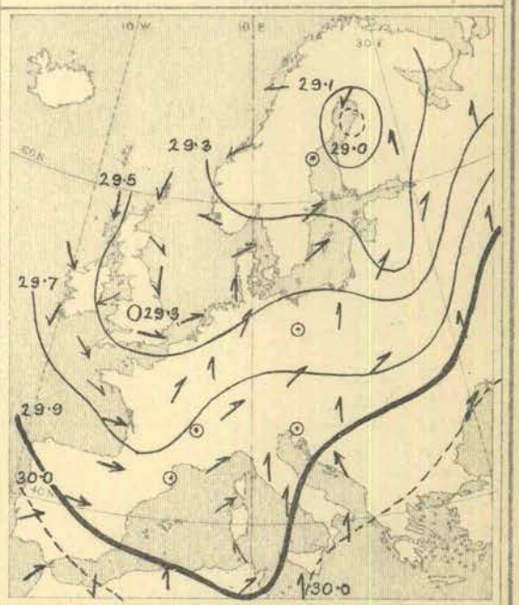
Temperature changing very irregularly; risen fast (but still low) in Scotland, fallen over France and north Germany. Morning readings exceeding 50° on the coasts of Algeria and southern Italy, and exceeding 40° on the shores of the Mediterranean and on the coasts of Portugal; much lower elsewhere. Lowest, (1) 15° at Haparanda and Hernösand, 18° at Bodö, 23° at Stockholm, 24° at Neufahrwasser; (2) 26° at Yarmouth, 28° at Cambridge, Dungeness, and Aberdeen, 29° at Leith, Loughborough, and in London, 30° to 31° over our north-eastern counties. Rising to between 40° and 45° on our south-west coasts later, rather higher in the west of France, 50° at Biarritz, 54° at Lisbon, 60° and more over southern Italy, and to 70° and more at Capes Bearn and Sicié.

Barometer and Wind.

8 a.m.



6 p.m.



Wind Northerly to North-Westerly over the United Kingdom, moderate as a whole, but blowing strongly at many stations; South-Westerly over the Netherlands, Germany, and the Baltic. Southerly over the Baltic Provinces and Gulf of Finland (a gale in places). Very variable over south-western, southern, and south-eastern Europe. Backing over the midland, eastern, and southern counties of England later, and shifting to the Eastward in Norway. Gale over the Gulf of Finland subsiding.

Barometer highest, 30·0 ins. and more to 29·9 ins. over Spain, Algeria, the greater part of the Mediterranean and south-eastern Europe. Lowest, 29·0 ins. and less in a depression lying over the Gulf of Bothnia and surrounding countries, and below 29·3 ins. all over the North Sea, Holland, the Baltic, and northern Europe. Gradients moderate, but irregular. New (small) depression appearing over the Irish Sea later and moving south-eastwards; other very shallow secondaries in various parts of France and central Europe.

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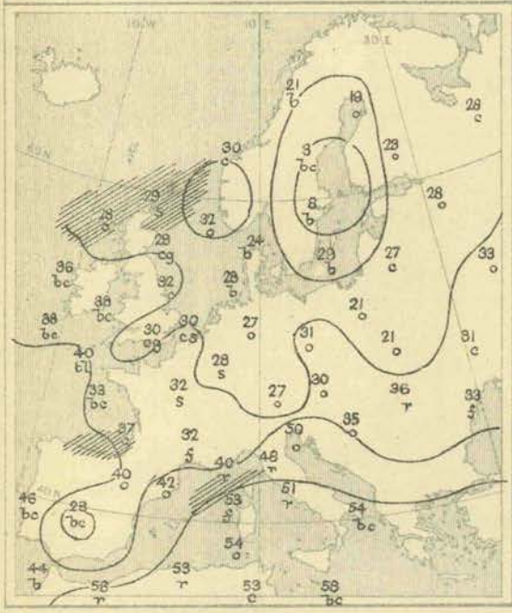
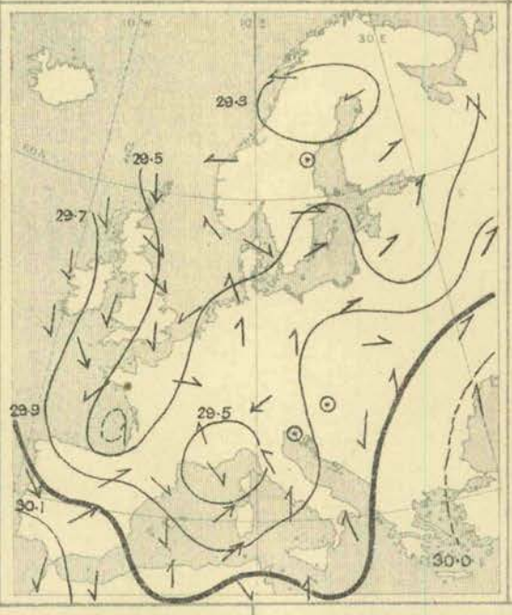
III.—SUMMARY OF WEATHER OVER EUROPE.

Saturday, 9th January.

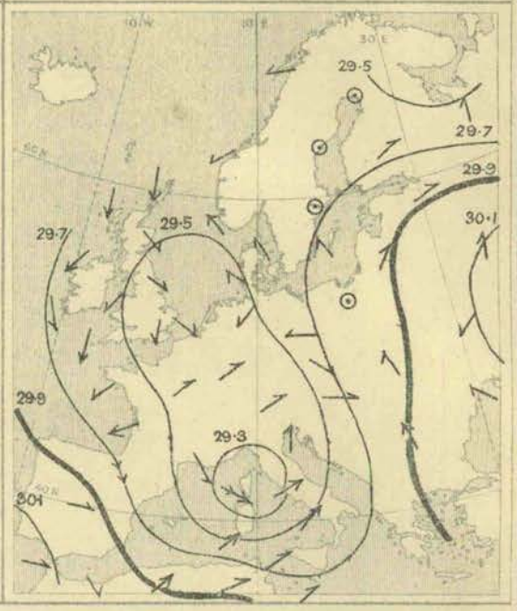
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning cold generally; fine and bright over some parts of Spain, cloudy, foggy, and quiet over southern and central Russia, and temporarily clear in some parts of Scandinavia and the British Islands. Very changeable, however, over western Europe as a whole, with snow or sleet in several parts of France and some parts of the British Islands; thunder and lightning at Scilly. Snow later in most places (heavy at Shields and Belmullet), rain at Biarritz and over Spain, and heavy rain over the north of Italy and south-west of Austria.

Temperature in morning exceeding 50° at several Mediterranean stations, exceeding 46° on the Portuguese coasts, and touching 40° at Scilly; lower elsewhere. Lowest, 3° at Hernösand, 8° at Haparanda and Stockholm, 22° at Helsingfors, 24° at the Scaw; 25° to 31° over central England, 30° at Parsonstown, 28° to 32° over central France. Not changing much over our Islands and north-western Europe later, but reaching 50° at Biarritz and Corunna, 54° at Lisbon, 60° and more in the south of Italy and Algeria, 70° at Palermo. Succeeding night very sharp over England.

Wind Northerly over the British Islands, and blowing very freshly at the Irish stations; Southerly over many parts of France and in the Straits of Dover, South-Westerly to Southerly over the Baltic Provinces, central and southern Russia. A separate cyclonic circulation over the Mediterranean, with the wind strong in Sardinia and over the Adriatic. Gales experienced from between South-West and North-West over the Mediterranean later, and Northerly breezes spreading to Straits of Dover.

Barometer highest, 30·1 ins. and more to 29·9 ins. over the south-western half of Spain, and exceeding 29·8 ins. off the west coast of Ireland; 30·0 ins. and more to 29·9 ins. over south-eastern Europe. Lowest, 29·3 ins. and less over Lapland, the northern parts of Norway, and Sweden; 29·4 ins. and less over the Baltic Provinces; 29·5 ins. and less in a large hollow stretching from Norway across the North Sea and England to the north and west of France, as well as in a depression over the Gulf of Genoa. Falling over southern and central Europe later, rising in the north.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟿ = a heavy gale; ⟿ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During the earlier part of this week large and deep depressions continued to travel in a south-easterly direction from the Atlantic across northern Europe and the Baltic, causing South-Westerly to North-Westerly gales over all the northern countries, accompanied by squalls of snow, sleet, soft hail, or cold rain. On several parts of the Mediterranean coasts also the weather was rainy and unsettled, owing to a separate series of depressions which appeared in that region. After the middle of the week the northern depressions filled up very gradually, but small shallow disturbances appeared over France and the Bay of Biscay, causing a continuance of unsettled weather in almost all districts. Temperature varied very fitfully and considerably; although sharp frost was the dominant condition in most places, there were temporary spells of really mild weather over the United Kingdom, and the amount of cloud has changed frequently from a completely overcast sky to *nil*. At the close of the week the conditions were much quieter than at its commencement, but the weather was by no means settled.

BRIGHT SUNSHINE Values for the Week in addition to those found on page 2.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	11·2	?	23	?	EASTBOURNE	19·3	?	35	?
OSWALDKIRK (Yorkshire)	13·3	?	25	?	TENBY	11·1 *	?	21 *	?
WORKSOP	17·0	+ 9·5	32	+18	NEWQUAY	7·5	?	13	?
THURCASTON (Leicestershire)	20·6	+14·0	39	+27	TORQUAY	20·0 *	?	35 *	?
MARGATE	10·7	?	19	?	ARLEY COTTAGE (County Cavan)	16·3	?	31	?
BRIGHTON	17·6	?	32	?	GUERNSEY	10·2 *	?	18 *	?

* The values at Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.
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VOL. IX. No. 2.] *Third Series.* WEEK ENDING SATURDAY, 16TH JANUARY, 1892. [*Price 6d.* [*Annual subscription, post paid*, £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years' observations (1871-90). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the ten years 1881-90. RAINFALL.—*The Mean amounts* are those for the corresponding periods in the twenty-five years 1866-90, but the *Mean numbers of Rainy Days* are those for the ten years 1881-90, only. BRIGHT SUNSHINE.—*The Mean values* employed are those for the corresponding periods in the ten years 1881-90.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 8.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1892. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	43	7	37·3	24·5	31·2	7 below.	0	− 8	76	+43	0	−14	149*	+ 81
	1. SCOTLAND, EAST -	40	10	36·0	23·7	30·1	7 below.	0	− 8	83	+43	0	−15	150	+ 68
	2. ENGLAND, N.E. - -	43	14	36·6	27·3	32·1	6 below.	0	− 7	69	+31	0	−13	136	+ 58
	3. ENGLAND, EAST -	39	10	35·1	22·4	29·0	9 below.	0	− 7	91	+47	0	−16	164	+ 74
	4. MIDLAND COUNTIES	40	7	34·8	21·6	28·5	9 below.	0	− 9	95	+51	0	−18	168	+ 76
	5. ENGLAND, SOUTH -	48	17	37·1	24·6	31·1	8 below.	0	−10	76	+43	0	−21	130	+ 63
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	42	17	37·4	27·6	32·7	7 below.	0	−10	65	+35	0	−18	122	+ 59
	7. ENGLAND, N.W. -	43	15	36·2	28·3	32·4	7 below.	0	− 8	67	+36	0	−17	120	+ 57
	8. ENGLAND, S.W. -	45	3	38·4	26·1	32·5	9 below.	0	−15	67	+44	0	−28	110	+ 65
	9. IRELAND, NORTH -	47	12	38·6	28·6	33·8	7 below.	0	−14	57	+31	0	−26	105	+ 55
	10. IRELAND, SOUTH -	49	13	39·7	27·1	33·7	9 below.	0	−20	58	+38	0	−39	104	+ 66
	— CHANNEL ISLANDS -	48	23	42·2	34·0	38·2	6 below.	1	−20	29	+19	11	−32	53	+ 33

Rainfall.

	DISTRICTS. (See p. 8.)	For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1892. Number of Rainy Days.	Difference from Mean.	Total Fall.	Difference from Mean.
			10ths of In.	10ths of In.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	4	7	7 less.	11	+ 1	2·2*	− 0·4
	1. SCOTLAND, EAST -	2	2	5 less.	6	− 1	0·8	− 0·5
	2. ENGLAND, N.E. - -	3	3	1 less.	7	0	0·9	0·0
	3. ENGLAND, EAST -	4	3	2 less.	8	+ 1	0·7	− 0·2
	4. MIDLAND COUNTIES-	3	4	2 less.	8	+ 1	0·8	− 0·3
	5. ENGLAND, SOUTH -	2	2	5 less.	6	− 1	0·4	− 0·8
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	3	4	10 less.	8	− 1	1·2	− 1·5
	7. ENGLAND, N.W. - -	4	3	5 less.	10	+ 2	1·2	− 0·3
	8. ENGLAND S.W. - -	3	6	4 less.	8	0	1·1	− 0·9
	9. IRELAND, NORTH -	4	4	4 less.	11	+ 2	1·5	− 0·1
	10. IRELAND, SOUTH -	3	9	1 less.	7	− 1	1·3	− 0·6
	— CHANNEL ISLANDS -	4	5	3 less.	11	+ 2	1·2	− 0·4

Bright Sunshine.

	DISTRICTS. (See p. 8.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1892. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	8	− 2	15	− 3	13	+ 2	14	+ 2
	1. SCOTLAND, EAST -	8	− 3	16	− 9	20	+ 2	20	+ 2
	2. ENGLAND, N.E. - -	5	− 5	9	−10	19	+ 7	18	+ 6
	3. ENGLAND, EAST -	10	0	17	0	25*	+ 6	23	+ 6
	4. MIDLAND COUNTIES-	10	+ 1	17	+ 2	28	+12	26	+11
	5. ENGLAND, SOUTH -	12	− 1	22	− 1	29	+11	24	+ 8
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	10	+ 2	18	+ 5	26	+13	25	+12
	7. ENGLAND, N.W. - -	13	+ 5	24	+10	26	+13	24	+11
	8. ENGLAND S.W. - -	20	+10	36	+19	34	+13	30	+11
	9. IRELAND, NORTH -	13	+ 2	23	+ 5	27	+ 9	25	+ 8
	10. IRELAND, SOUTH -	18	+ 6	32	+11	31	+ 7	28	+ 6
	— CHANNEL ISLANDS -	14	+ 7	25	+13	26	− 6	22	− 5

Bright Sunshine.—For several of the stations there are no "mean" values available, and the "difference from the mean" in some of the districts is consequently that of only a few of the stations.

General Remarks.

Weather continued very cold in all parts of the Kingdom, but the conditions were quieter than during the previous week and the falls of snow were less prevalent and comparatively slight. Over the western and south-western parts of the Kingdom several fine, clear intervals were experienced.

Temperature remained much below the mean, the deficit ranging from 6° in England N.E. and the Channel Islands, to 8° in England S., and to 9° over eastern, central, and south-western England, as well as in Ireland S. The highest of the maxima, which were registered on rather irregular dates, ranged from 49° in Ireland S. and 48° in England S. and the Channel Islands to 39° in England E. The absolute minima were also registered on varying dates and were very low. In England S.W. (at Llandovery, on the 10th) the sheltered thermometer fell to 3°, and in Scotland N. and the Midland Counties (at Lairg and Bawtry) to 7°. Elsewhere they ranged from 10° in Scotland E. and England E., to 17° in England S. and Scotland W., and to 23° in the Channel Islands.

Rainfall was less than the mean in all districts.

Bright Sunshine exceeded the mean in the "Grazing districts," but showed a deficit in most of the "Wheat-producing districts." The percentage of the possible duration ranged from 36 in England S.W. and 32 in Ireland S., to 15 in Scotland N., and to 9 in England N.E.

Barometer and Wind.—The distribution of barometric pressure during this period changed frequently and considerably, but no important depressions passed immediately over the Kingdom. Soon after the commencement of the week pressure became highest in the west and south-west, while depressions were observed far to the northward and southward of our Islands. As the week progressed the high-pressure area moved to the southward and depressions appeared off the west and south-west of Ireland. The wind varied considerably in direction, but was chiefly Northerly or North-Westerly during the earlier part of the week. Towards the end of the time, however, it shifted to the South-Eastward very generally, and increased to the force of a gale on nearly all our coasts.

* This value has been altered owing to the receipt of further information.

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II.– DATA from which the SUMMARY on page 7 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	43	25	38·9	30·6	34·9	− 4·4	0	50	5	0·74	−0·11	*	*	*	*
	Stornoway	39	22	38·1	27·0	32·8	− 6·3	0	64	3	0·12	−1·08	4·2	− 1·8	9	− 3
	Wick	40	24	37·4	27·7	32·7	− 5·3	0	65	6	0·62	+0·14	*	*	*	*
	Lairg S	38	7	35·5	18·0	27·1	− 9·1	0	104	4	0·30	−0·50	*	*	*	*
	Glencarron S	37	12	35·5	21·1	28·4	− 9·0	0	95	4	1·25	−1·05	*	*	*	*
	Fort Augustus S	41	9	37·3	21·4	29·7	− 9·0	0	86	4	0·38	−0·67	*	?	16	?
	Fort William S	43	17	38·6	26·0	32·6	− 7·0	0	66	3	0·87	−1·35	10·5	?	21	?
1. SCOTLAND, E.	Nairn	40	10	36·9	22·1	29·8	− 7·8	0	85	2	0·20	−0·25	*	*	*	*
	Aberdeen	39	20	37·0	27·3	32·3	− 5·6	0	68	5	0·51	−0·01	7·5	− 3·7	15	− 9
	Braemar S	36	13	34·1	21·0	27·8	− 7·0	0	99	0	—	−0·70	0·0†	?†	0†	?†
	Ochtertyre S	39	15	35·1	20·6	28·1	− 6·5	0	97	2	0·07	−1·09	*	*	*	*
	Leith S	40	26	38·1	27·3	32·9	− 6·3	0	64	2	0·15	−0·30	*	*	*	*
	Marchmont S	37	21	35·0	24·1	29·8	− 6·8	0	85	3	0·23	−0·40	9·0	?	18	?
2. ENGLAND, N.E.	Alnwick Castle	39	24	36·6	27·6	32·3	− 5·7	0	68	3	0·22	−0·29	*	*	*	*
	Durham	38	21	34·5	25·1	30·0	− 7·0	0	84	3	0·22	−0·28	2·3	− 7·6	4	−14
	Shields	40	27	37·3	29·4	33·5	− 5·1	0	60	4	0·38	−0·02	*	*	*	*
	Scarborough M	40	24	36·6	28·2	32·6	− 6·0	0	66	3	0·39	−0·07	*	*	*	*
	York	40	14	35·9	23·1	29·8	− 7·9	0	85	3	0·55	+0·13	3·4	− 2·5	6	−5
	Spurn Head	43	27	38·6	30·1	34·5	− 3·8	0	53	2	0·10	−0·22	*	*	*	*
3. ENGLAND, E.	Hillington M	37	17	35·0	23·8	29·6	− 7·5	0	87	2	0·38	−0·07	11·8	+ 1·9	21	+ 4
	Yarmouth	37	22	35·4	26·7	31·2	− 6·7	0	76	6	0·35	−0·10	*	*	*	*
	Geldeston	39	16	36·5	23·4	30·2	− 8·0	0	83	4	0·28	−0·18	9·6	− 2·3	17	− 4
	Cambridge	36	14	34·7	19·9	27·6	−10·0	0	101	2	0·17	−0·19	?	?	?	?
	Rothamsted	35	10	33·7	18·2	26·3	−11·1	0	110	4	0·17	−0·41	7·8	?	14	?
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	38	7	35·3	22·3	29·1	− 8·3	0	90	3	0·25	−0·09	*	*	*	*
	Loughborough	39	18	35·9	22·7	29·6	− 8·3	0	87	6	0·32	−0·14	*	*	*	*
	Stamford (Ketton Hall)	40	12	34·1	16·9	25·8	−11·6	0	113	3	0·49	+0·04	*	*	*	*
	Cheadle M	37	21	33·4	25·0	29·4	− 7·2	0	88	3	0·61	0·00	*	*	*	*
	Churchstoke M	36	13	33·8	21·1	27·7	−10·5	0	100	2	0·48	−0·20	18·7	+ 8·7	34	+16
	Hereford M	38	14	35·9	21·3	28·9	− 9·7	0	92	3	0·58	0·00	*	*	*	*
	Cirencester	36	16	34·4	21·4	28·2	− 9·4	0	97	3	0·11	−0·59	4·6	− 5·4	8	−10
	Oxford	39	19	35·4	22·3	29·1	− 9·3	0	90	3	0·16	−0·34	10·0	+ 1·1	18	+ 2
5. ENGLAND, S.	London	38	23	36·6	25·3	31·2	− 8·0	0	76	3	0·05	−0·43	2·2†	− 3·6†	4†	− 5†
	North Foreland	40	26	37·6	30·1	34·0	− 5·4	0	56	2	0·02	?				
	Strathfield Turgiss M	36	19	34·5	21·1	28·1	− 9·9	0	97	1	0·08	−0·47	*	*	*	*
	Dungeness	39	17	36·1	22·4	29·5	−10·5	0	88	1	0·03	−0·56	*	*	*	*
	Hastings (St. Leonards)															
	Southampton	39	21	36·7	26·1	31·6	− 8·5	0	73	1	0·35	−0·41	14·7	+ 4·7	26	+ 8
	Hurst Castle	48	22	38·3	26·6	32·7	− 8·1	0	65	1	0·58	−0·10	*	*	*	*
	Stowell M	47	17	39·7	20·8	30·4	− 8·1	0	81	4	0·08	?	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	43	17	38·3	25·4	32·1	− 8·0	0	69	3	1·23	−0·83	*	*	*	*
	Glasgow	40	24	36·0	28·4	32·4	− 6·1	0	67	3	0·13	−0·82	3·5	− 0·7	7	− 1
	Ardrossan	42	24	38·3	28·1	33·4	− 6·9	0	60	2	0·20	−0·77	*	*	*	*
	Glenlee S	39	17	35·7	26·5	31·3	− 6·1	0	75	3	0·17	−1·60	*	*	*	*
	Douglas (Isle of Man)	40	25	38·6	29·8	34·4	− 6·1	0	53	5	0·30	−0·76	15·8	+ 6·6	29	+12
7. ENGLAND, N.W.	Newton Reigny	37	15	34·0	23·3	28·9	− 8·2	0	92	3	0·14	−0·72	8·9	+ 1·0	17	+ 2
	Stonyhurst	37	19	34·4	25·0	29·9	− 8·1	0	85	4	0·19	−0·78	11·3	+ 4·9	21	+ 8
	Blackpool M															
	Manchester	38	24	34·4	28·8	31·7	− 6·3	0	72	5	0·37	−0·37	*	*	*	*
	Liverpool Obsy. (Bidston)	38	22	34·9	27·1	31·2	− 8·3	0	76	6	0·43	−0·08	*	*	*	*
	Llandudno M	43	27	38·6	31·5	35·2	− 6·4	0	48	3	0·26	−0·40	18·4	+11·5	33	+20
	Holyhead	43	30	40·7	34·1	37·5	− 4·9	0	32	4	0·31	−0·48	*	*	*	*
8. ENGLAND, S.W.	Llandovery	38	3	36·4	15·9	26·6	−13·6	0	108	3	0·39	−0·82	*	*	*	*
	Pembroke	42	25	39·7	31·4	35·7	− 7·1	0	44	3	0·52	−0·36	22·7	+11·9	41	+21
	Arlington (N. Devon)	29	18	36·6	22·7	29·9	− 9·7	0	85	2	0·66	−0·32	*	*	*	*
	Cullompton M	41	14	37·4	21·4	29·7	−10·3	0	86	4	1·19	+0·41	13·5	+ 5·6	24	+10
	Falmouth	46	26	39·1	31·3	35·4	− 8·7	0	46	4	0·83	−0·40	25·0	+14·4	43	+25
	Plymouth	44	27	39·1	31·1	35·3	− 6·8	0	47	4	0·55	−0·36	21·4	+11·5	37	+20
	Prawle Point	46	25	40·6	28·9	35·0	− 7·1	0	49	1	0·07	−0·64	*	*	*	*
9. IRELAND, N.	Malin Head	43	30	39·7	33·0	36·5	− 3·8	0	39	3	0.40	?	*	*	*	*
	Londonderry	43	23	38·1	28·9	33·7	− 6·7	0	58	4	0·07	−0·83	*	*	*	*
	Mullaghmore	42	28	40·4	31·1	35·9	− 6·2	0	43	7	0·62	−0·38	*	*	*	*
	Belmullet	44	29	41·4	33·0	37·4	− 5·7	0	32	7	1·23	?	*	*	*	*
	Markree Castle	40	16	36·7	21·9	30·1	− 9·7	0	83	4	0·32	−0·47	8·8	− 1·0	16	− 1
	Brookeborough	40	12	36·8	22·8	30·1	− 8·5	0	83	1	0·32	−0·68	*	*	*	*
	Armagh	40	15	36·7	25·6	31·4	− 7·6	0	74	1	0·27	−0·38	14·8	+ 4·9	27	+10
	Donaghadee	41	26	39·1	30·6	35·0	− 5·3	0	49	4	0·27	−0·38	*	*	*	*
	Edgeworthstown	47	25	38·4	29·6	34·2	− 4·8	0	55	1	0·07	−0·63	*	*	*	*
10. IRELAND, S.	Dublin	42	22	39·2	29·3	34·5	− 7·4	0	53	3	0·75	+0·25	17·4	+ 5·5	32	+15
	Parsonstown	43	13	37·1	22·0	29·9	−10·1	0	85	4	0·53	−0·17	12·2	+ 1·3	22	+ 2
	Kilkenny	43	17	37·1	22·1	29·5	−11·3	0	85	2	0·53	−0·27	*	*	*	*
	Waterford	43	19	40·0	24·6	32·6	−10·0	0	66	3	0·67	−0·35	*	*	*	*
	Roche's Point	47	26	42·1	31·9	37·2	− 6·6	0	37	2	0·85	−0·36	*	*	*	*
	Valencia	49	31	42·7	34·9	39·5	− 5·6	5	27	5	1·50	0·00	24·3	−11·6	43	+21
	Killarney	48	15	38·9	24·7	32·1	−11·3	0	69	5	1·49	?	*	*	*	*
	Foynes												*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	48	31	43·3	35·3	39·5	− 6·5	4	26	3	0·62	−0·24	*	*	*	*
	Jersey	45	23	41·1	32·7	36·9	− 5·3	0	36	4	0·29	−0·44	22·3	+ 7·4	38	+13

Stations marked M are in connection with the Royal Meteorological Society, and those marked S with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

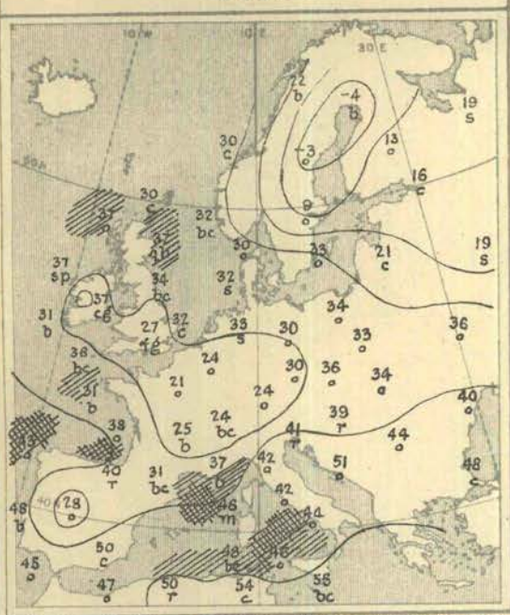
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory and the Meteorological Office, Victoria Street. For additional Reports of Sunshine see last page.

III.—SUMMARY OF WEATHER OVER EUROPE.

Sunday, 10th January.

Temperature and Weather.

8 a.m.

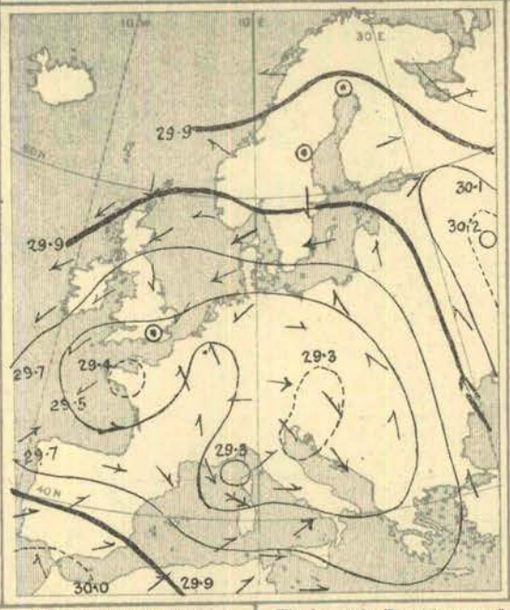


Weather cold, but very changeable, over the whole of western Europe. Sky clear in several regions, dull in others, with snow, sleet, graupel, or cold rain in many localities and a threatening appearance in others; unsettled over the south-western and southern countries also, foggy and dull in the east. Snow falling in the north later, and a few slight showers at several of the English and some French stations—largest amount 0·45 in. at York. Thunderstorm occurring at Brest.

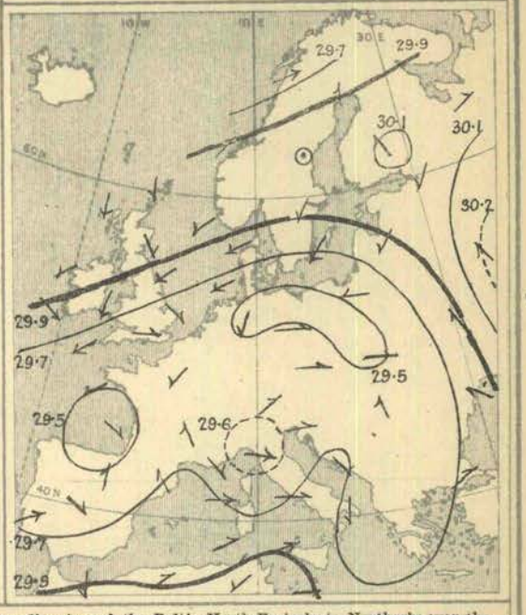
Temperature low in all parts of Europe. Highest morning values, 50° and more at Malta and several of the Algerian stations, and 40° or more over Italy, the east of Spain, and in Portugal. Below 40° all over the United Kingdom, and as low as (1) −6° Fahr. at Ulcaborg, −3° at Hernösand, 16° at St. Petersburg, 19° at Archangel and Moscow; (2) 21° at Paris, 23° at Münster, 24° at Belfort, Munich, and Brussels; (3) 23° to 27° over England, 13° at Parsonstown, and 28° at Roche's Point; (4) 28° at Madrid. Rising to above the freezing point over our Islands later and touching 40° at Leith and Shields. Exceeding 50° in most parts of southern Europe.

Barometer and Wind.

8 a.m.



6 p.m.



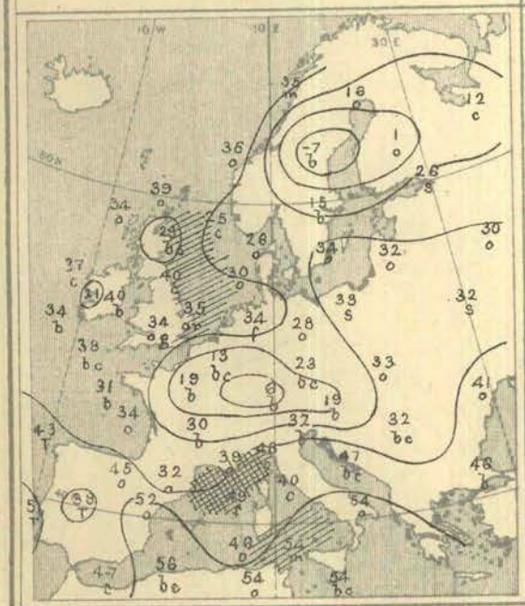
Wind mainly Easterly over Scandinavia and the Baltic, North-Easterly to Northerly over the British Islands (strong at the northern and western stations); mainly South-Westerly to Westerly over the Iberian Peninsula and Baltic (a gale at Sanguinaire), Southerly over Hungary, South-Easterly over southern Russia. Very variable elsewhere: small cyclonic circulation over the north-west of France, the Gulf of Genoa, and Corsica, and a larger one over Austria-Hungary. Becoming still more variable over France and the east of England later. Strong South-Westerly winds setting in over the north-west of Norway.

Barometer highest, 30·3 ins. and more to 30·0 ins. in an anticyclone over Russia; 30·0 ins. and more to 29·9 ins. over Algeria and the southern half of Spain. Lowest, 29·4 ins. and less in a depression over Brittany; 29·3 ins. and less in two others—one over the Gulf of Genoa, the other over Austria. Falling over Spain later, rising in our Islands. New high-pressure system spreading over us from northward, but depression approaching the north-west of Norway from the westward.

Monday, 11th January.

Temperature and Weather.

8 a.m.

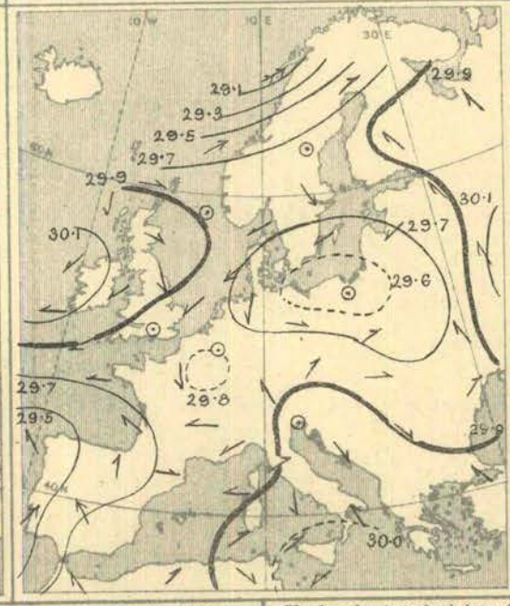


Weather fine in Ireland and the north of England, as well as over Sweden, Austria, the Adriatic, and central France. Cloudy or overcast elsewhere, with rain over the greater part of the Spanish Peninsula, and snow over central England, as well as at several of the Russian and German stations. Rain or sleet falling later in the north of Scandinavia, in all the northern and eastern parts of the United Kingdom, as well as over the south of France and north of Italy; sky clearing over England at night.

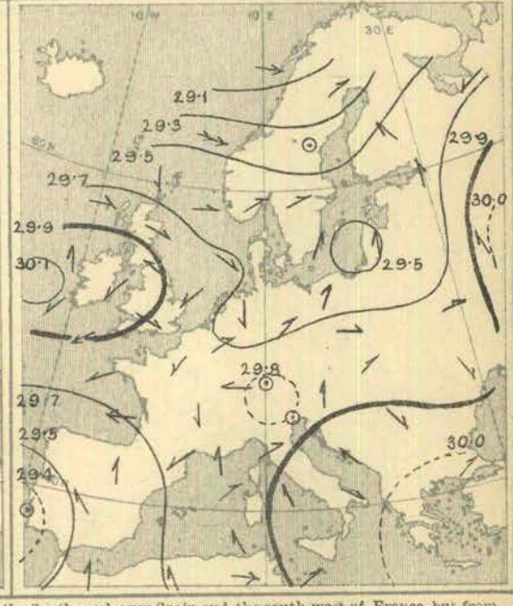
Temperature highest, 56° at Algiers, 54° at Brindisi, Palermo, Malta, and La Calle, and 52° at Barcelona; above 45° at most of the Mediterranean stations. Lowest, (1) −7° at Hernösand, +1° at Kuopio, 12° at Archangel, and 15° at Stockholm; (2) 6° at Munich, 13° at Brussels, and 14° at Wiesbaden; (3) 21° at Parsonstown. Above the freezing point at most of the English stations, but below it in Scotland. Subsequently rising to 40° on the east coasts of England, and to a little higher in the north of Ireland, to 50° and more over southern Europe, and to 70° over Algeria; remaining below 40° in most other parts of the United Kingdom. Hard frost over England at night.

Barometer and Wind.

8 a.m.



6 p.m.



Wind moderate to fresh from the Southward over Spain and the south-west of France, but from the North-Eastward over England, Denmark, the south of Sweden, and the north of France; light from between East and North over central France. Light from the Westward or North-Westward in Scotland, strong to a gale from South-West in the west of Norway, Westerly or South-Westerly over the greater part of Germany, South-Easterly in Russia; variable in Italy and Algeria. Subsequently backing to the Southward in the north of Ireland, no great change taking place elsewhere.

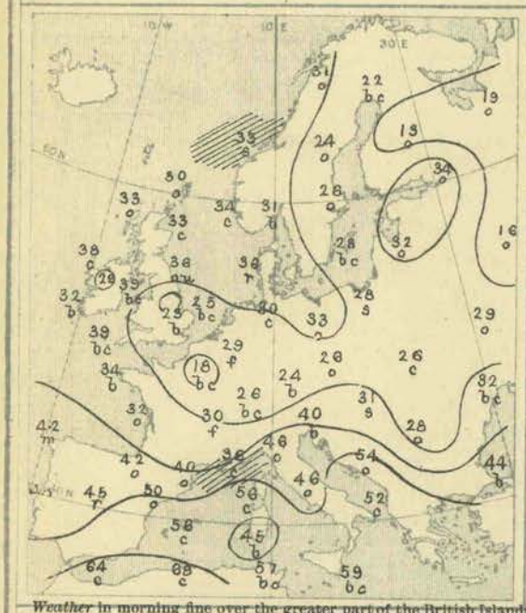
Barometer highest, 30·1 ins. and upwards in an anticyclone lying over Ireland, and in another lying over central Russia; 30·0 ins. and upwards over the south of Italy and south-eastern parts of the Mediterranean and Asia Minor. Lowest, 29·1 ins. and less in a deep depression lying off the north-west of Norway; 29·4 ins. and less in another lying off the Portuguese coasts; 29·6 ins. and less in a shallow disturbance over north Germany and the Baltic Provinces. Decided fall over the north of our Islands during day, and anticyclone over Ireland receding to the south-westward, but spreading south-eastwards.

Judd & Co Ltd, Lith. 63, Carter Lane, Doctors' Commons.

III.—SUMMARY OF WEATHER OVER EUROPE.

Tuesday, 12th January.

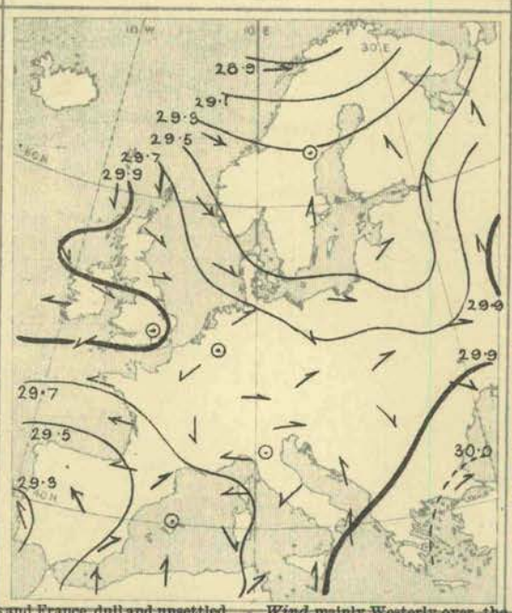
Temperature and Weather. 8 a.m.

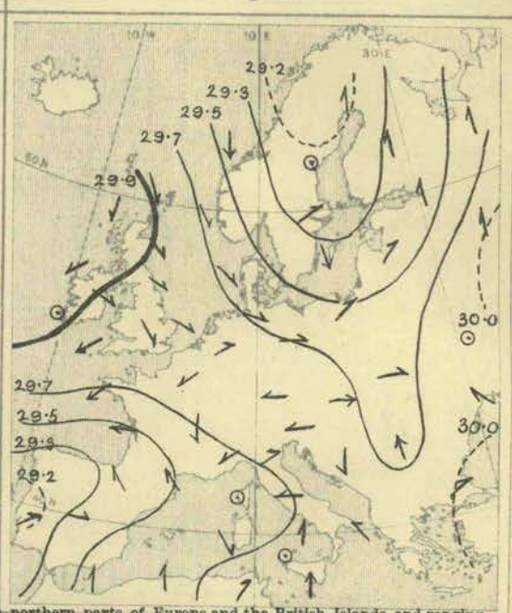


Weather in morning fine over the greater part of the British Islands and France, dull and unsettled in the extreme north and north-west, with sleet or soft hail in places; changeable and somewhat unsettled over the Continent generally. Snow falling at Christiansund, rain at Madrid, and also at Fanö; fog or haze in many parts of England and the Netherlands. Considerable rain and snow later over the southern parts of France and at Nemours (Algeria), slight rain over Scotland, the north of Ireland, and, locally, in some parts of Germany.

Temperature changing very fitfully; risen in Scotland and over northern Europe, fallen fast over England. Still exceeding 50° over the eastern, southern, and western coasts of the Mediterranean, and exceeding 40° over Iberian Peninsula and northern Italy; lower elsewhere. Lowest, (1) 13° at Knopio, 16° at Moscow, 19° at Archangel, 20° at Helsingfors; (2) 16° at Warsaw, 20° at Cracow, 24° at Munich; (3) 18° at Paris, 14° at Cambridge, 20° at Loughborough and Oxford, 23° in London; (4) 29° at Parsonstown. Rising later to 40° or more on our north-western coasts and over the greater part of France, to 50° at Biarritz, to 54° at Lisbon, and to 57° at Perpignan, to 70° at Palermo, and to nearly 80° over Algeria; above freezing point in London during evening.

Barometer and Wind. 8 a.m. and 6 p.m.



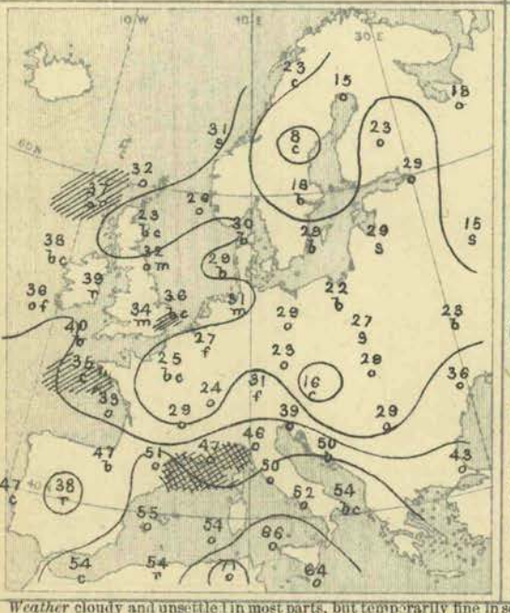


Wind mainly Westerly over the northern parts of Europe and the British Islands, and ranging between North in Scotland and South over Finland and the northern parts of the Baltic. Southerly and South-Easterly over Spain, Easterly over the Bay of Biscay, Easterly to North-Easterly over the English Channel and our south-west coast. Very light and variable elsewhere. Shifting to Northward over Scandinavia later and blowing hard in places; freshening from North-East at the mouth of the English Channel, but veering towards West at Lisbon and Nemours.

Barometer highest, 29·9 ins. and more to 29·8 ins. over the British Islands, the north and east of France, and western Germany; 30·0 ins. and more to 29·8 ins. over Asia Minor and south-eastern Europe. Lowest, 29·0 ins. and less over Lapland; below 29·4 ins. in a secondary disturbance over the southern half of Scandinavia; and 29·4 ins. to 29·3 ins. over the western half of the Spanish Peninsula. Rising at the northern stations later, but falling in the south as the Spanish depression moved north-eastwards towards France.

Wednesday, 13th January.

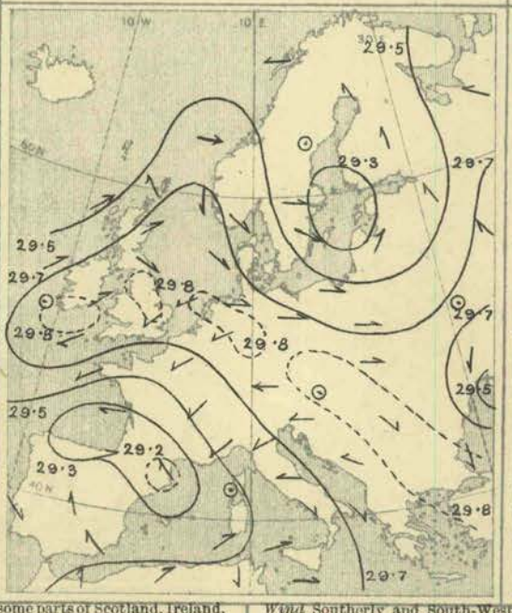
Temperature and Weather. 8 a.m.

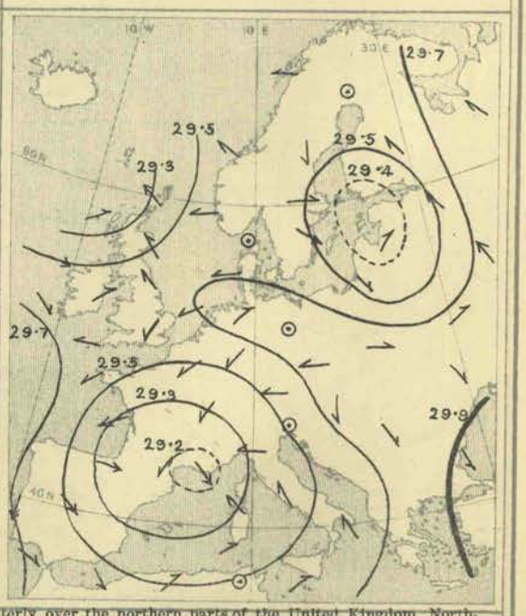


Weather cloudy and unsettled in most parts, but temporarily fine in some parts of Scotland, Ireland, and southern Russia, foggy over England, the Netherlands and Germany; snow falling at Moscow, Warsaw, Riga, and Christiansund, rain at Holyhead, Madrid, Barcelona, Algiers, and Odessa. Rain and snow showers occurring over Ireland and the north-western parts of Great Britain later; large quantities of rain in northern Italy and the southern parts of France, and rain in some of the western Departments.

Temperature fallen rapidly at most northern stations, but risen very decidedly over Tunis, Malta, and Sicily. Highest, 71° at La Calle 66° at Tunis and Palermo, 64° at Malta, and exceeding 50° at all but the most northern of the Mediterranean stations; below 40° on the British and French Coasts, still lower elsewhere. Lowest of all, (1) 8° at Hernösand, 18° at Moscow and Uleaborg, 18° at Archangel; (2) 16° at Vienna, 19° at Buda-Pesth, 24° at Belfort and Swinemunde, 26° at Paris; (3) 19° at Nairn, 23° at Aberdeen, 28° at Leith. Rising later to between 40° and 44° on the western and south-western coasts of the United Kingdom, and to between 50° and 55° in the south of France. Exceeding 60° in the south of Italy, and exceeding 70° in Algeria.

Barometer and Wind. 8 a.m. and 6 p.m.





Wind Southerly and South-Westerly over the northern parts of the United Kingdom, North-Westerly over Sweden and Denmark, Westerly over Germany, Southerly over Finland and northern Russia; Easterly over the southern counties of England and the English Channel, North-Easterly over Brittany, North-Westerly at Lisbon, Southerly and South-Westerly over Algeria, extremely variable elsewhere. The South-Westerly wind at our northern stations spreading southwards later.

Barometer highest, 29·8 ins. and more to 29·7 ins. in a high-pressure area of irregular form, stretching from Ireland and England across the Netherlands to Germany, Austria, the Adriatic, and south-eastern Europe, as well as in another system over central Russia. Lowest, 29·3 ins. and less, in a depression over the Baltic and Finland, and in another complex system over the south-west of France and north of Spain; about 29·5 ins. in a third depression over the Crimea and southern Russia, and apparently below 29·5 ins. off our extreme north-west coasts. Falling over the United Kingdom later—especially in the north, but beginning to rise fast over the Spanish Peninsula, as the depression in that neighbourhood moved eastwards.

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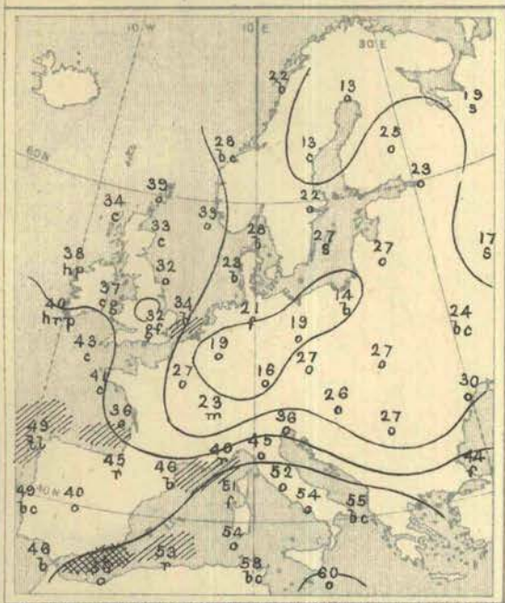
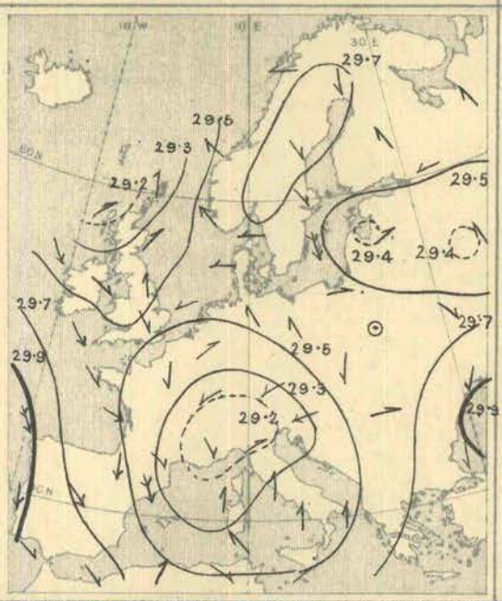
III.—SUMMARY OF WEATHER OVER EUROPE.

Thursday, 14th January.

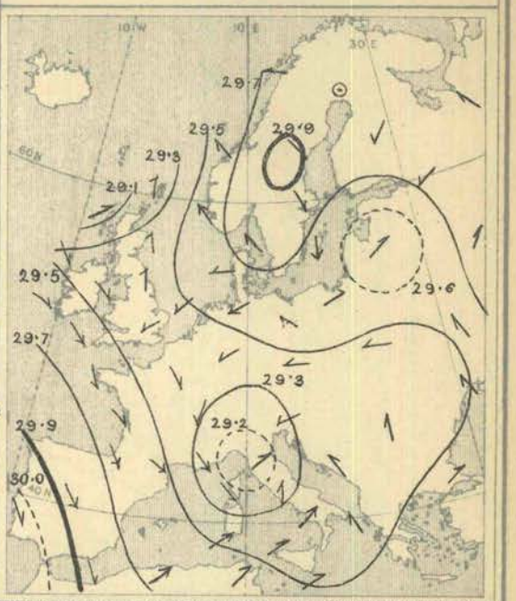
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather cloudy or overcast over the greater part of Europe, with hail showers in Ireland, and snow in many parts of England, as well as at Moscow, Helsingfors, Vienna, and Limoges; rain falling at Biarritz and Algiers, and a thunderstorm reported at Corunna. Fine in Norway, Denmark, and Holland, but foggy over north Germany. Sky clearing later in the north of our Islands, as well as at some of the French stations, but snow falling in London and heavy rain in the north of Italy.

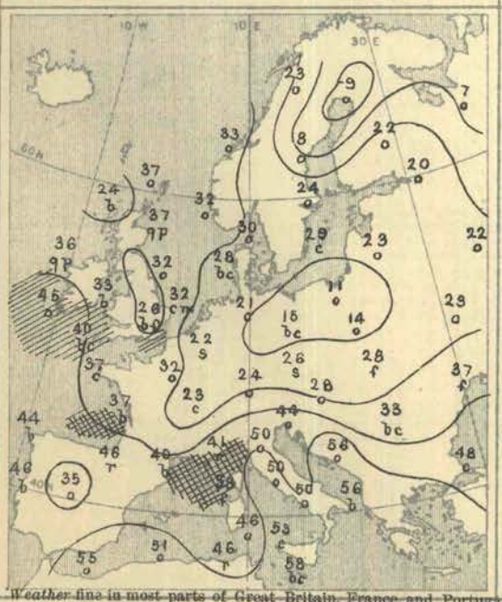
Temperature highest, 60° at Malta, 59° at La Calle, 56° at Oran, 55° at Brindisi, and 54° at Naples and Cagliari; above 50° at most of the Mediterranean stations, and above 45° on the coasts of the Spanish Peninsula. Lowest, 13° at Haparanda and Hernösand, 14° at Swinemunde and Neufahrwasser, and 16° at Warsaw and Munich; considerably below the freezing point over northern, eastern, and central Europe, as well as in some parts of central England. Daily maxima below 35° at many of the English stations, and below the freezing point in Germany, but thermometer exceeding 45° in the south of France, and exceeding 60° in Algeria and the south of Italy, the highest reading of all being 73° at Palermo.

Wind moderate to strong from the North-Westward over Spain and the west coasts of our Islands and France, with a gale at Corunna and Barcelona; light to moderate from the Southward or South-Westward over the northern parts of the United Kingdom; South-Easterly in the west of Norway. Light from the Eastward or South-Eastward over Denmark and Germany, from the North-Eastward in the south-east of England, and from North over Russia and Austria; Southerly over Italy, South-Westerly or Westerly over Algeria. No important change occurring during day.

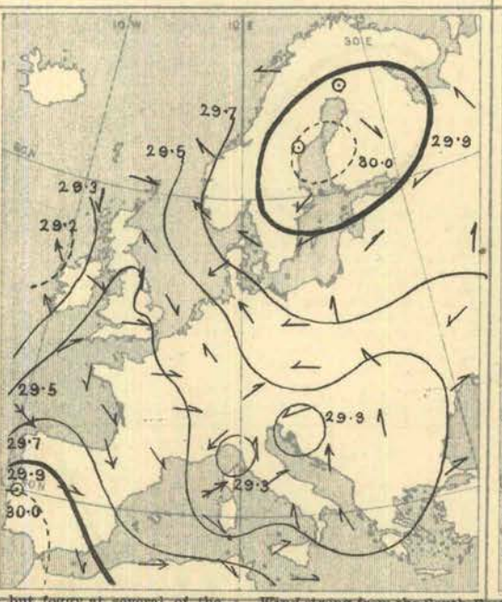
Barometer highest, 29·9 ins. and upwards in an anticyclone lying to the westward of Portugal, and also in another lying over the Black Sea; 29·7 ins. and upwards in a third system lying over Scandinavia. Lowest, 29·2 ins. in two depressions—one lying off the north-west of Scotland, and the other over Switzerland, northern Italy, and the south-east of France; 29·4 ins. and less in small disturbances lying respectively over the Gulf of Riga and in the neighbourhood of Moscow. Depression over Switzerland subsequently moving southwards and anticyclone to the westward of Portugal spreading eastwards.

Friday, 15th January.

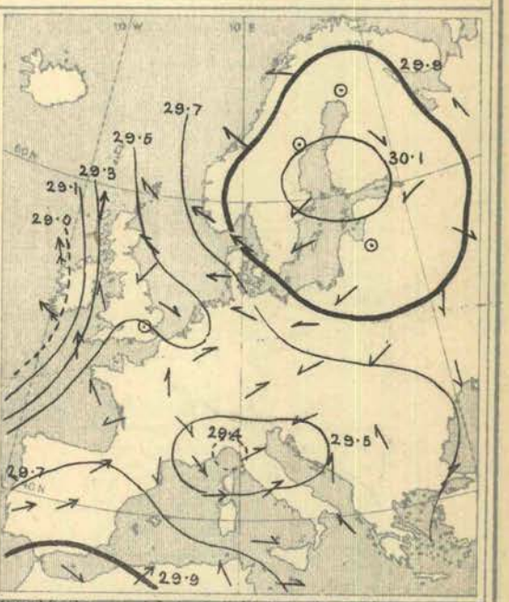
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather fine in most parts of Great Britain, France, and Portugal, but foggy at several of the English stations; dull elsewhere, with passing showers in the west of Ireland, and with snow over the Netherlands and some parts of Germany, as well as at Aumale (Central Algeria); rain falling at Nice and Biarritz. Showers falling later at several of our own western and northern stations, heavy rain in the south of Ireland and north-west of France, and a considerable quantity in the north of Italy and at Monaco.

Temperature highest, 58° at Malta, 56° at Lesina and Brindisi, 55° at Oran, 53° at Palermo and Nemours, and above 50° at several Mediterranean stations; 48° at Scilly, and 45° at Valencia Island. Lowest, −9° Fahr. at Haparanda, + 7° at Archangel, 8° at Hernösand, 11° at Neufahrwasser, 13° at Swinemunde, and 14° at Breslau and Warsaw; considerably below the freezing point over the whole of northern and central Europe, as well as in the north and east of Great Britain, and slight frost prevailing over the northern and central parts of Ireland. Daily maxima over our Islands below 40° at all but the west coast stations, and below 20° in some parts of Germany. Thermometer exceeding 45° on our south-west coasts, and in the west and south of France, and exceeding 60° over southern Italy.

Wind strong from the South-Eastward in the west of Ireland, light from the Southward on the east coast of that country and of Scotland. Northerly or North-Westerly over the greater part of England and France, and also in the north of Spain, with a gale at Corunna. South-Westerly or Southerly in Italy, light and variable in Russia, calm in Sweden. Easterly in Norway, Denmark, and Germany. Subsequently increasing to a fresh or strong gale from the South-Eastward in the west and south of Ireland, and to a strong breeze from the Southward on many other parts of our western coasts, and freshening from East over northern Europe; remaining light from North-Westward over the east of England.

Barometer highest, 30·0 ins. and upwards in an anticyclone lying over the Gulf of Bothnia, and also in another system lying over the south of Spain. Lowest, 29·2 ins. and less, in a depression off the west of Ireland; 29·3 ins. and less, in two other systems lying respectively over the Gulf of Genoa, and over the northern parts of the Adriatic; 29·5 ins. and less in a large shallow area lying over the south of Russia. New depression of considerable depth advancing later towards our extreme western coasts, where barometer fell briskly.

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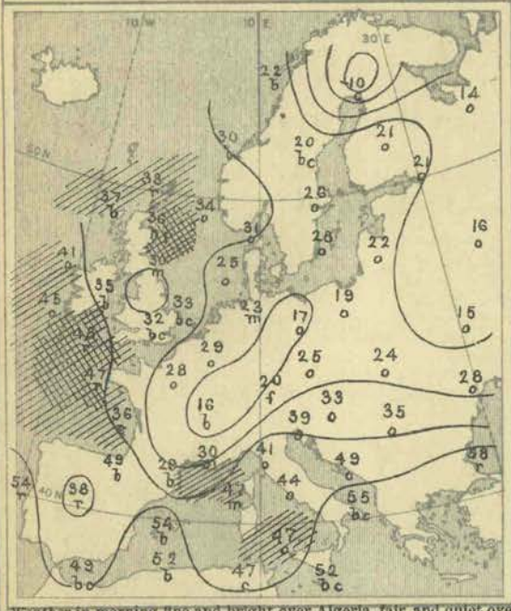
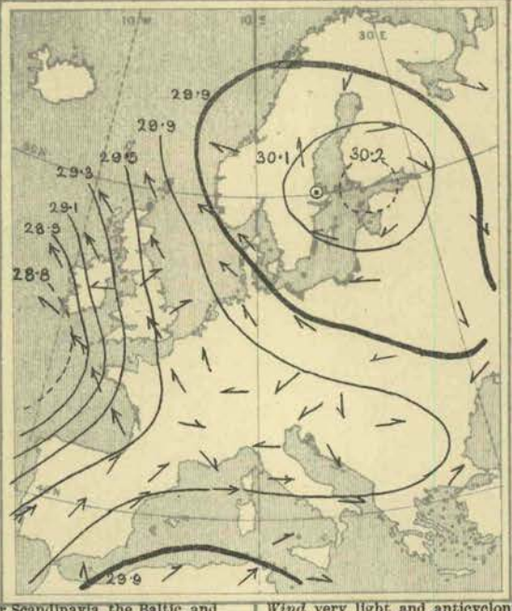
III.—SUMMARY OF WEATHER OVER EUROPE.

Saturday, 16th January.

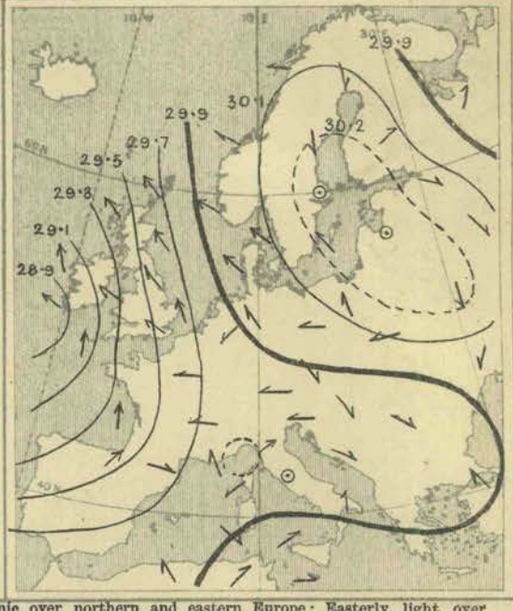
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fine and bright over Algeria, fair and quiet over Scandinavia, the Baltic, and Russia, but dull in places, and temporarily fair over England and some parts of France; dull, changeable, and very unsettled over north-western Europe as a whole, with hail or rain showers in various parts of Scotland, Ireland, Brittany, and the Spanish Peninsula. Rain or sleet showers later in nearly all parts of our Islands, heavy rain over Brittany and the west of France, and local cold showers over Austria and south-eastern Europe.

Temperature risen in the west and south of our Islands, fallen over the north-midland counties, and changing irregularly in all regions. Morning readings exceeding 50° on southern side of Mediterranean only, but exceeding 40° on the Atlantic coasts of Europe and the British Islands; much lower elsewhere. Lowest, (1) −10° Fahr. at Haparanda, +6° at Moscow, 13° at Kharkov, 14° at Archangel and Warsaw; (3) 16° at Belfort, 17° at Berlin, 20° at Munich, 28° at Paris; (3) 20° at York, 21° at Loughborough. Rising later to between 45° and 48° on many parts of our western coasts, to between 50° and 55° in the south and south-west of France, to 60° and more in the south of Italy and at the Algerian stations.

Wind very light and anticyclonic over northern and eastern Europe; Easterly, light, over Germany; mainly South-Easterly over north-western Europe and Southerly to South-Westerly over Spain. Blowing a gale in Scotland, Ireland, and Portugal, and increasing in force on the south-eastern coasts of England, where a moderate gale from South-East set in later. No great change elsewhere.

Barometer highest, 30·2 ins. and more to 29·9 ins. in an anticyclone lying over Scandinavia, the Baltic, and southern Russia, and exceeding 29·9 ins. over Algeria. Lowest, 28·8 ins. and less in a large depression lying to the south-westward of Ireland, and below 29·7 ins. over Switzerland, the north of Italy, and south-eastern Europe. Rising over our Islands and northern Europe later; depression in west apparently receding westwards.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During this week the distribution of pressure over Europe has been constantly changing. At first readings were lowest over the central and western countries, highest in the extreme north and south-west, so that while Easterly winds were felt over the northern countries, Westerly and South-Westerly winds were felt in the south, and very variable breezes at the more central stations. Then came a rapid change—for on Monday the highest pressures were reported over the western, central, and south-eastern countries, while depressions appeared in the far north, on the one hand, and over the Spanish Peninsula on the other. These spread steadily, with the result that unsettled weather became general, even over southern Europe, and, while the wind at the more northern stations was Westerly (South-West to North-West), that in the south was Easterly (South-East to North-East). It is worth noting that on Wednesday morning the barometric readings were below 29·9 ins. all over Europe! Towards the close of the week a new change occurred; the barometer rose, and an anticyclone was formed, all over northern Europe and the Baltic, while a large and rather deep depression reached the western coasts from the Atlantic. Easterly and South-Easterly winds became general, with rain in the south, snow and sleet in the north-west and north. The changes in temperature have been great and frequent, but, as a whole, the values were much below the average.

BRIGHT SUNSHINE Values for the Week in addition to those found on page 8.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
EDINBURGH	15·1	?	30	?	EASTBOURNE	21·5	?	38	?
OSWALDKIRK (Yorkshire)	9·2	?	17	?	TENBY	14·4 *	?	26*	?
WORKSOP	8·2	+ 0·4	15	+ 1	NEWQUAY	23·7	?	41	?
THURCASTON (Leicestershire)	5·8	− 1·2	11	− 1	TORQUAY	21·8 *	?	38*	?
MARGATE	9·9	?	17	?	ARLEY COTTAGE (County Cavan)	14·4	?	27	?
BRIGHTON	13·4	?	24	?	GUERNSEY	6·5 *	?	11*	?

* The values at Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.
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VOL. IX. No. 3.] *Third Series.* WEEK ENDING SATURDAY, 23RD JANUARY, 1892. [*Price 6d.* [*Annual subscription, post paid, £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years' observations (1871-90). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the ten years 1881-90. RAINFALL.—*The Mean amounts* are those for the corresponding periods in the twenty-five years 1866-90, but the *Mean numbers of Rainy Days* are those for the ten years 1881-90, only. BRIGHT SUNSHINE.—*The Mean values* employed are those for the corresponding periods in the ten years 1881-90.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 14.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1892. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	46	24	40·9	33·7	37·5	1 below.	0	− 8	32	− 1	0	−25	181	+ 81
	1. SCOTLAND, EAST -	49	19	39·0	31·4	35·3	2 below.	0	− 8	47	+ 7	0	−27	197	+ 77
	2. ENGLAND, N.E. - -	45	20	38·8	31·5	35·3	3 below.	0	− 7	47	+ 9	0	−21	183	+ 70
	3. ENGLAND, EAST -	50	24	39·9	31·6	35·9	2 below.	0	− 7	43	0	0	−21	207	+ 74
	4. MIDLAND COUNTIES	49	21	39·2	31·7	35·6	3 below.	0	− 9	45	+ 1	0	−28	213	+ 80
	5. ENGLAND, SOUTH -	52	29	43·3	34·9	39·2	0 (average)	4	− 6	26	− 7	4	−26	156	+ 53
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	47	26	40·7	34·4	37·7	2 below.	0	−10	30	+ 1	0	−32	152	+ 63
	7. ENGLAND, N.W. -	49	19	40·0	33·4	36·8	3 below.	0	− 8	36	+ 6	0	−26	157*	+ 66
	8. ENGLAND, S.W. -	51	27	45·4	36·4	41·1	1 below.	10	− 5	23	0	10	−34	133	+ 63
	9. IRELAND, NORTH -	50	26	41·4	33·8	37·7	3 below.	0	−14	30	+ 4	0	−44	134*	+ 57
	10. IRELAND, SOUTH -	53	26	45·8	35·8	41·0	2 below.	11	− 9	26	+ 6	11	−51	129*	+ 69
	— CHANNEL ISLANDS -	52	35	48·6	41·2	45·1	1 above.	25	+ 4	2	− 8	36	−27	55	+ 23

Rainfall.

	DISTRICTS. (See p. 14.)	For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1892. Number of Rainy Days.	Difference from Mean.	Total Fall.	Difference from Mean.
			10ths of In.	10ths of In.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	5	8	5 less.	16	+ 1	3·0	− 0·8
	1. SCOTLAND, EAST -	5	11	5 more.	11	+ 1	1·9	− 0·1
	2. ENGLAND, N.E. - -	4	3	1 less.	11	+ 1	1·2	− 0·1
	3. ENGLAND, EAST -	3	1	3 less.	11	+ 1	0·8	− 0·6
	4. MIDLAND COUNTIES-	5	5	1 less.	13	+ 3	1·3	− 0·4
	5. ENGLAND, SOUTH -	4	4	2 less.	10	0	0·8	− 1·1
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	6	12	2 less.	14	+ 1	2·4	− 1·7
	7. ENGLAND, N.W. - -	5	10	3 more.	15	+ 4	2·2	0·0
	8. ENGLAND S.W. - -	5	6	3 less.	13	+ 1	1·7	− 1·2
	9. IRELAND, NORTH -	4	5	3 less	14*	+ 1	1·9*	− 0·5
	10. IRELAND, SOUTH -	5	8	1 less.	13*	+ 1	2·1	− 0·8
	— CHANNEL ISLANDS -	7	6	2 less.	18	+ 5	1·8	− 0·6

Bright Sunshine.

	DISTRICTS. (See p. 14.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1892. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	2	− 3	3	− 4	15	− 2	10	− 2
	1. SCOTLAND, EAST -	0	−11	0	−21	20	−11	13	− 9
	2. ENGLAND, N.E. - -	1	− 7	1	−15	20	0	12	− 1
	3. ENGLAND, EAST -	1	−11	2	−16	27*	− 1	16	− 1
	4. MIDLAND COUNTIES-	3	− 7	5	−12	31	+ 6	19	+ 3
	5. ENGLAND, SOUTH -	7	− 9	12	−13	36	+10	21	+ 6
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	0	− 9	0	−14	26	+ 4	16	+ 2
	7. ENGLAND, N.W. - -	2	− 7	3	−13	25*	+ 3	15	+ 1
	8. ENGLAND S.W. - -	7	− 6	11	− 7	41	+ 8	24	+ 5
	9. IRELAND, NORTH -	0	−11	0	−18	27	− 1	17	0
	10. IRELAND, SOUTH -	5	− 8	8	−14	36	0	22	0
	— CHANNEL ISLANDS -	3	−11	4	−19	29	−18	16	−11

Bright Sunshine.—For several of the stations there are no "mean" values available, and the "difference from the mean" in some of the districts is consequently that of only a few of the stations.

General Remarks.

Weather during this period was cold and extremely dull in all parts of the Kingdom, with frequent falls of rain or sleet. A good deal of mist or fog prevailed in the English districts, especially in the south and east.

Temperature continued below the mean generally, but slightly exceeded it in the Channel Islands, and just equalled it in England S. The highest of the maxima were recorded on the last day of the week, when temperature was rising quickly. They varied from 53° in Ireland S. to 45° in England N.E. During the earlier part of the period the thermometer (except in the west and south-west) seldom exceeded 40°. The lowest of the minima were registered on very irregular dates, and ranged from 19° in Scotland E. and England N.W., to 29° in England S., and to 35° in the Channel Islands.

Rainfall was more than the mean in Scotland E. and England N.W., but less in all other districts. In England E. the fall was very slight.

Bright Sunshine was very deficient. In Scotland E. and W. and Ireland N. none whatever was registered, while elsewhere the percentage of possible duration varied from 1 in England N.E. and from 2 to 4 in several other districts, to 11 in England S.W. and 12 in England S.

Barometer and Wind.—During the greater part of the period the barometer was highest to the north-eastward of our Islands, and lowest to the westward and south-westward, but towards its close pressure had become comparatively high in the south and was lowest in the north-west. No important depressions passed immediately over us, but several systems travelled northwards or north-westwards outside our western coasts, and on the 20th a well-marked depression was observed off our south-western coasts moving in a southerly direction. The wind was generally South-Easterly to Southerly until the close of the week, when South-Westerly breezes set in. In force it was light or moderate in the east and south-east, but fresh or strong in the west and north-west, and on the 21st increased to the strength of a gale.

* This value has been altered slightly owing to the receipt of further information.

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II.—DATA from which the SUMMARY on page 13 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head ⚓	43	35	41·3	36·7	39·1	− 0·3	0	20	7	1·04	−0·21	*	*	*	*
	Stornoway	44	31	41·7	33·1	37·6	− 1·5	0	31	6	0·47	−0·72	4·4	− 2·4	9	−4
	Wick	43	34	40·9	36·1	38·6	+ 0·4	0	24	5	0·65	+0·19	*	*	*	*
	Lairg ⚓	44	24	39·4	28·9	34·4	− 2·1	0	53	5	0·33	−0·45	*	*	*	*
	Glencarron ⚓	45	28	40·0	31·7	36·0	− 1·6	0	42	4	1·26	−0·99	*	*	*	*
	Fort Augustus ⚓	45	30	41·4	33·2	37·5	− 1·4	0	32	5	0·42	−0·62	0·7	?	1	?
	Fort William ⚓	46	35	41·8	36·5	39·3	− 0·3	0	19	5	1·10	−1·15	0·0	?	0	?
1. SCOTLAND, E.	Nairn	45	27	40·9	31·7	36·5	− 1·4	0	39	4	0·32	−0·11	*	*	*	*
	Aberdeen	42	30	40·3	34·7	37·6	− 0·5	0	31	4	1·81	−1·29	1·4	−11·1	3	−22
	Braemar ⚓	41	19	36·9	29·0	33·1	− 1·9	0	62	5	0·54	−0·17	0·0†	?†	0†	?†
	Ochtertyre ⚓	43	28	37·6	32·4	35·1	− 1·6	0	46	7	2·46	+1·28	*	*	*	*
	Leith ⚓	49	28	41·1	31·7	36·6	− 2·7	0	38	3	0·37	−0·07	*	*	*	*
	Marchmont ⚓	38	23	36·9	29·0	33·1	− 3·7	0	62	4	1·10	+0·50	0·0	?	0	?
2. ENGLAND, N.E.	Alnwick Castle	44	27	39·4	31·9	35·3	− 2·2	0	43	4	0·71	+0·22	*	*	*	*
	Durham	41	22	37·2	29·9	33·7	− 3·5	0	58	6	0·22	−0·24	1·1	− 9·5	2	−16
	Shields	45	21	40·4	29·6	35·1	− 3·8	0	48	3	0·36	−0·04	*	*	*	*
	Scarborough 𝔐	41	31	38·4	33·8	36·2	− 2·7	0	41	3	0·18	−0·27	*	*	*	*
	York	43	20	38·7	30·4	34·7	− 3·3	0	51	4	0·15	−0·27	0·0	− 6·8	0	−12
	Spurn Head	42	26	38·6	33·4	36·1	− 2·2	0	41	4	0·10	−0·20	*	*	*	*
3. ENGLAND, E.	Hillington 𝔐	43	30	38·9	32·3	35·7	− 1·7	0	44	3	0·22	−0·20	1·6	− 8·9	3	−14
	Yarmouth	44	30	39·6	32·9	36·4	− 1·7	0	39	2	0·04	−0·41	*	*	*	*
	Geldeston	44	28	40·4	32·1	36·4	− 2·2	0	39	2	0·07	−0·29	1·1	−11·3	2	−19
	Cambridge	50	24	40·7	30·1	35·6	− 2·4	0	45	3	0·13	−0·24				
	Rothamsted	47	28	39·8	30·5	35·3	− 2·2	0	47	4	0·18	−0·41	0·5	?	1	?
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	46	30	38·3	31·7	35·1	− 2·9	0	48	4	0·22	−0·18	*	*	*	*
	Loughborough	49	21	40·4	31·4	36·1	− 2·0	0	41	4	0·23	−0·24	*	*	*	*
	Stamford (Ketton Hall)	46	22	39·0	29·9	34·6	− 3·1	0	52	5	0·22	−0·19	*	*	*	*
	Cheadle 𝔐	42	28	36·3	31·3	33·9	− 2·9	0	57	6	0·69	+0·10	*	*	*	*
	Churchstoke 𝔐	48	28	38·4	31·9	35·3	− 2·9	0	47	4	0·51	−0·15	3·9	− 6·9	7	−12
	Hereford 𝔐	46	29	38·8	31·9	35·5	− 3·6	0	46	4	1·16	+0·58	*	*	*	*
	Cirencester	46	29	40·4	33·6	36·7	− 1·3	0	37	7	0·66	−0·04	4·1	− 6·7	7	−12
	Oxford	49	30	42·3	33·1	37·9	− 1·1	1	33	5	0·13	−0·38	4·9	− 5·1	8	− 8
5. ENGLAND, S.	London	52	30	43·3	33·6	38·6	− 0·8	4	31	3	0·14	−0·35	0·0†	− 6·1†	0†	−10†
	North Foreland	50	31	41·6	33·9	37·9	− 1·6	0	29	2	0·07	?				
	Strathfield Turgiss 𝔐	50	29	42·3	32·5	37·6	− 0·6	1	35	5	0·18	−0·36	*	*	*	*
	Dungeness	47	31	43·7	34·1	39·1	− 1·0	5	30	3	0·12	−0·46	*	*	*	*
	Hastings (St. Leonards)	45	31	42·2	35·0	38·7	− 1·4	1	25	?	?	?	?	?	?	?
	Southampton	50	31	44·3	36·5	40·7	+ 0·6	7	22	5	0·33	−0·42	4·5	− 6·4	8	−10
	Hurst Castle	47	33	44·9	37·7	41·4	+ 0·5	8	18	5	0·35	−0·33	*	*	*	*
	Stowell 𝔐	49	31	43·9	35·5	39·9	+ 1·1	5	25	7	1·81	?	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	47	33	42·5	35·0	38·9	− 1·3	1	26	5	1·39	−0·63	*	*	*	*
	Glasgow	46	31	39·4	34·5	37·1	− 1·6	0	34	6	1·09	+0·13	0·0	− 5·7	0	−10
	Ardrossan	45	26	40·9	34·9	38·0	− 2·4	0	28	5	1·12	+0·14	*	*	*	*
	Glenlee ⚓	46	31	39·1	33·0	36·2	− 1·4	0	41	7	1·58	−0·19	*	*	*	*
	Douglas (Isle of Man)	46	28	41·8	34·5	38·3	− 2·3	0	26	5	0·83	−0·22	0·1	− 9·5	0	−18
7. ENGLAND, N.W.	Newton Reigny	44	19	37·8	29·1	33·6	− 3·6	0	59	5	0·88	0·00	0·5	− 9·0	1	−16
	Stonyhurst	43	30	37·9	33·1	35·6	− 2·6	0	45	5	0·97	+0·05	0·0	− 8·0	0	−14
	Blackpool 𝔐	47	29	39·9	32·9	36·5	− 1·9	0	39	6	1·16	+0·48	0·0	− 7·9	0	−14
	Manchester	45	33	38·7	35·4	37·1	− 1·1	0	34	6	1·34	+0·64	*	*	*	*
	Liverpool Obsy. (Bidston)	48	24	40·4	32·1	36·4	− 3·5	0	39	6	0·99	+0·49	*	*	*	*
	Llandudno 𝔐	49	30	42·0	34·7	38·5	− 3·1	0	25	4	0·62	0·00	5·8	− 3·2	10	− 6
	Holyhead	48	34	43·6	36·4	40·1	− 2·2	4	21	5	0·82	+0·08	*	*	*	*
8. ENGLAND, S.W.	Llandovery	47	28	42·7	32·3	37·7	− 3·0	2	36	5	0·56	−0·62	*	*	*	*
	Pembroke	48	35	45·0	38·0	41·6	− 1·0	8	17	4	0·38	−0·46	4·8	− 6·9	8	−13
	Arlington (N. Devon)	47	27	43·2	32·7	38·5	− 1·2	5	35	6	1·23	+0·23	*	*	*	*
	Cullompton 𝔐	49	30	44·8	37·1	41·1	+ 0·9	8	20	5	0·62	−0·14	0·5	− 8·5	1	−14
	Falmouth	50	34	46·6	38·1	42·5	− 1·4	20	11	4	0·48	−0·75	11·9	+ 0·9	20	+ 1
	Plymouth	50	30	47·2	39·0	43·3	+ 1·1	22	8	4	0·74	− 0·17	8·2	− 1·8	14	− 4
	Prawle Point	51	32	47·4	37·6	42·7	+ 0·6	23	12	5	0·48	−0·22	*	*	*	*
9. IRELAND, N.	Malin Head	46	30	40·4	33·9	37·3	− 3·3	0	33	4	0·15	?	*	*	*	*
	Londonderry	48	29	41·0	32·8	37·1	− 3·7	0	34	4	0·31	−0·60	*	*	*	*
	Mullaghmore	50	31	41·9	34·7	38·4	− 3·9	0	25	3	0·44	−0·50	*	*	*	*
	Belmullet	50	34	44·1	36·7	40·6	− 2·3	6	21	6	1·47	?	*	*	*	*
	Markree Castle	49	26	40·3	31·5	36·1	− 3·9	0	41	3	0·25	−0·50	0·0	−10·6	0	−19
	Brookeborough	48	29	40·0	32·6	36·5	− 2·3	0	39	3	0·26	−0·74	*	*	*	*
	Armagh	50	27	41·0	32·6	37·0	− 2·2	0	35	3	0·20	−0·44	0·1	−10·7	0	−17
	Donaghadee	45	32	42·3	34·4	38·5	− 2·0	1	28	6	0·81	+0·16	*	*	*	*
	Edgeworthstown	49	31	41·2	34·9	38·2	− 1·0	0	27	4	0·29	−0·39	*	*	*	*
10. IRELAND, S.	Dublin	52	29	44·1	35·5	40·0	− 2·0	6	26	4	0·34	−0·16	2·4	−10·1	4	−14
	Parsonstown	51	26	43·9	31·9	38·1	− 2·1	5	38	3	0·22	−0·48	4·1	− 7·5	7	−13
	Kilkenny	50	29	44·3	34·1	39·4	− 2·1	6	31	2	0·29	−0·50	*	*	*	*
	Waterford	48	30	44·9	35·1	40·2	− 2·7	8	18	3	0·43	−0·62	*	*	*	*
	Roche's Point	50	36	47·1	39·1	43·3	− 0·6	21	8	6	1·80	+0·56	*	*	*	*
	Valencia	52	33	48·6	39·0	44·0	− 1·1	27	8	7	1·36	−0·14	7·5	− 6·0	13	−10
	Killarney	52	32	47·7	35·7	41·9	− 2·1	16	27	7	1·46	?	*	*	*	*
	Foynes	53	32	45·5	36·3	41·1	− 1·5	10	24	6	0·63	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	52	39	50·3	42·7	46·7	+ 0·8	33	0	7	0·65	−0·19	*	*	*	*
	Jersey	50	35	46·9	39·7	43·4	+ 1·1	19	6	6	0·49	−0·21	4·5	−11·5	7	−19

Stations marked 𝔐 are in connection with the Royal Meteorological Society, and those marked ⚓ with the Scottish Meteorological Society.

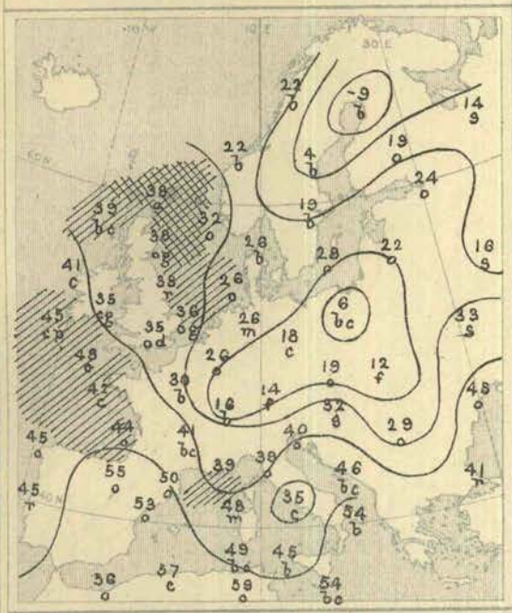
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory and the Meteorological Office, Victoria Street. For additional Reports of Sunshine see last page.

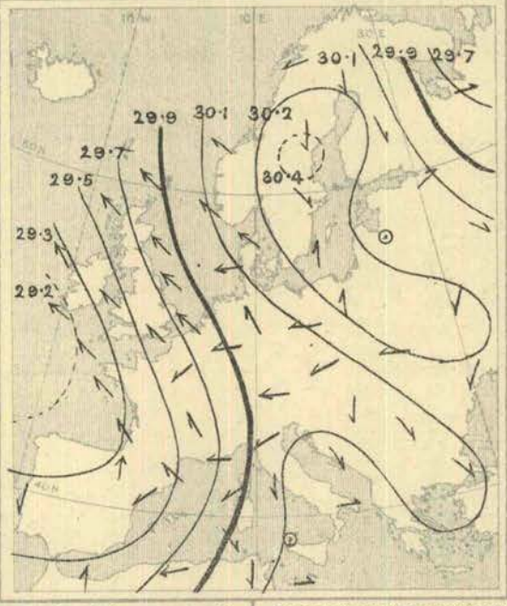
III.—SUMMARY OF WEATHER OVER EUROPE.

Sunday, 17th January.

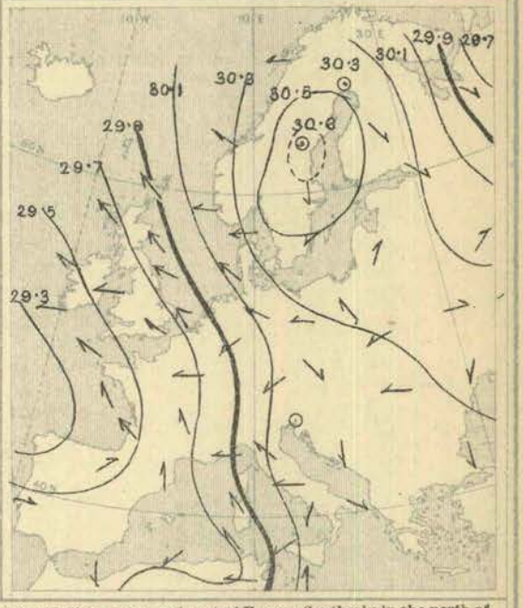
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fine and bright over Scandinavia and several parts of north Germany, as well as over Italy and the south-eastern portion of the Mediterranean; changeable and unsettled elsewhere, squally and showery in the north and west of our Islands, with snow in places, rainy at Lisbon, fog at Munich, Lemberg, and Memel; snow falling at Archangel, Moscow, Kiev, and Buda-Pesth. Silver thaw prevalent in London. Rain falling later over the greater part of our Islands and the western and south-western parts of France; amounts reported not large, except at Biarritz, where the fall exceeded an inch.

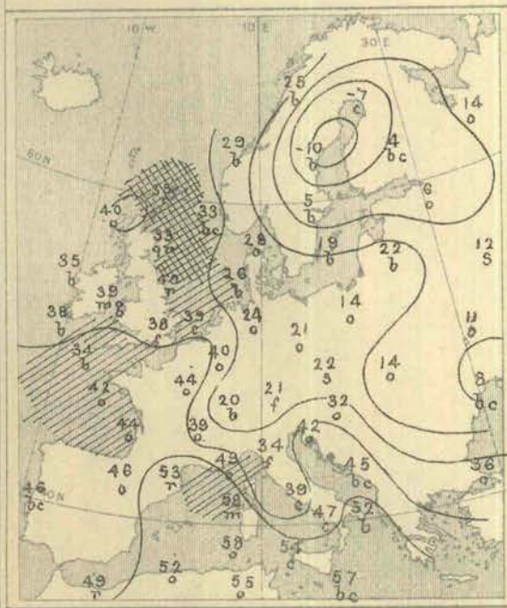
Temperature rising over the United Kingdom, but changed very irregularly as a whole: morning readings exceeding 50° at Brindisi, Malta, and several stations on the Algerian and Spanish coasts, and exceeding 40° on the Atlantic coasts of Europe; lower elsewhere. Lowest, −9° Fahr. at Uleaborg, +4° at Hernösand, 14° at Archangel, 16° at Moscow; 6° at Neufahrwasser, 12° at Lemberg, 14° at Munich. Rising later to between 40° and 47° over the western and northern parts of the United Kingdom, to 50° and more in the west and south of France, and to between 60° and 68° over Algeria and the southern parts of Italy.

Wind Easterly to Northerly over the Mediterranean and central Europe, Southerly in the north of Spain, South-Easterly over the British Islands and North Sea, blowing very strongly in many places; light and variable over northern and eastern Europe, moderate over the Mediterranean. Very little change later.

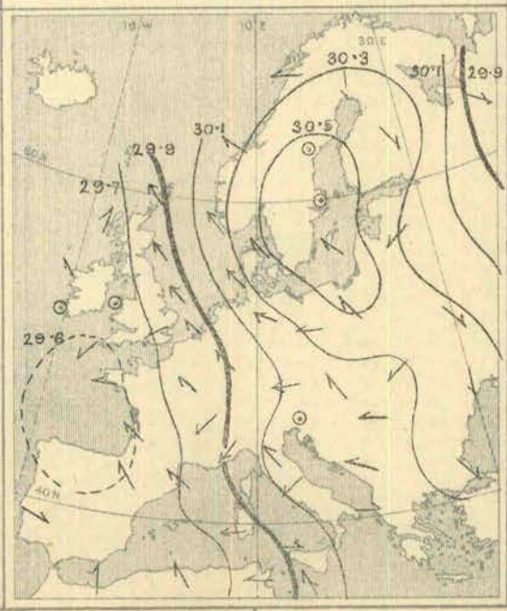
Barometer, 30·4 ins. and more to 30·1 ins. in a large high-pressure area stretching from Scandinavia, across the Baltic, to western Russia and the Black Sea, and exceeding 30·1 ins. over Italy and the south-eastern parts of the Mediterranean. Lowest, 29·2 ins. and less in a depression lying away to the south-westward of Ireland; 29·8 ins. and less in another over northern Russia. Rising over our Islands and northern Europe during the day and anticyclone over Scandinavia increasing greatly in intensity.

Monday, 18th January.

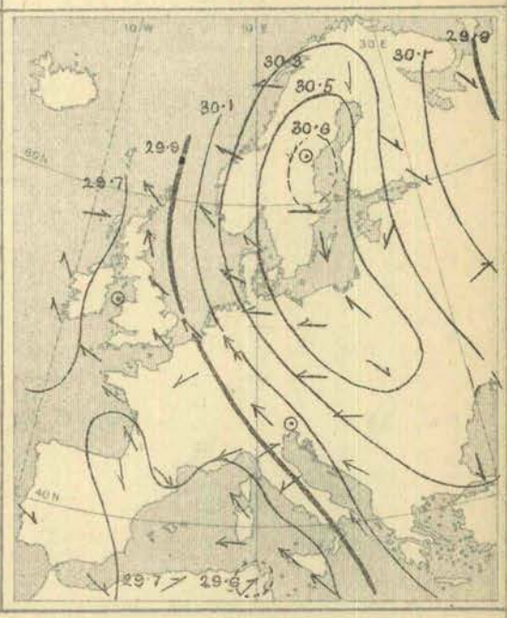
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fine and bright at the Scandinavian stations and over the Baltic Provinces, as well as on our extreme south-western coasts and in the east of France; cloudy, more or less, elsewhere, with fog in several places, rain on our north-eastern coasts and at some of the French stations, snow in many parts of Russia. Heavy rain on our north-east coasts later (1·3 ins. at Aberdeen) and showers in the west and south-west; large quantities of rain in the south-west and south of France also, and at the Algerian stations.

Temperature in morning still above 50° on the southern shores of the Mediterranean, as well as at Sanguinaire, and above 40° over the western parts of France and the south coasts of England; lower elsewhere. Lowest, (1) −10° Fahr. at Hernösand, −7° at Haparanda, +4° at Kuopio, 6° at St. Petersburg, 7° at Helsingfors, 12° at Moscow, 14° at Swinemünde, 19° at Wisby; (2) 6° at Warsaw, 8° to 9° over southern Russia, 11° at Kiev; (3) 20° at Belfort, 21° at Munich. Rising later to between 40° and 50° all over the British Islands, and to more than 50° in the west and south of France, to 60° and more on the Algerian coasts and in the south of Italy, and to 70° at Palermo.

Wind South-Easterly over the greater part of north-western Europe, and blowing strongly over the North Sea; North-Easterly to Easterly over the Mediterranean and Germany, and blowing very strongly at the Mediterranean stations; Northerly over Russia. Very light and variable over the south-western parts of our Islands and the Bay of Biscay. Becoming rather more Southerly over England later, but not much change in other parts of Europe.

Barometer highest, 30·5 ins. and more to 30·2 ins. all over Scandinavia and the Baltic, and in a ridge extending thence across Germany and Austria to the Balkan Peninsula and Asia Minor. Lowest, 29·5 ins. and less over northern Russia, and rather below 29·6 ins. off our extreme north-west coasts, and also over the Bay of Biscay. Changing little and irregularly later, except over Algeria and Tunis, where a well-marked depression was observed moving north-eastwards.

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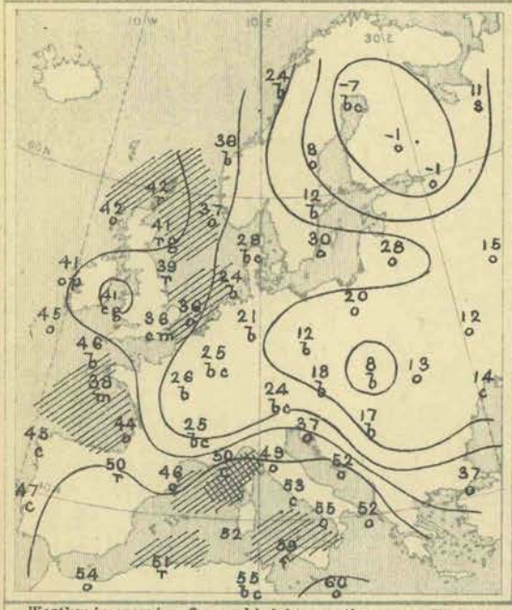
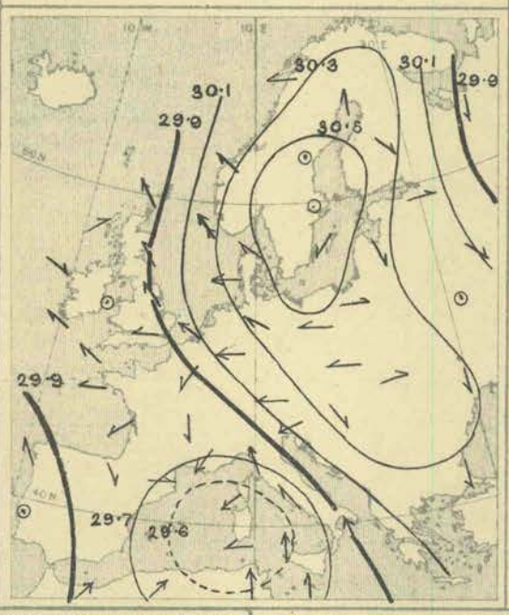
III.—SUMMARY OF WEATHER OVER EUROPE.

Tuesday, 19th January.

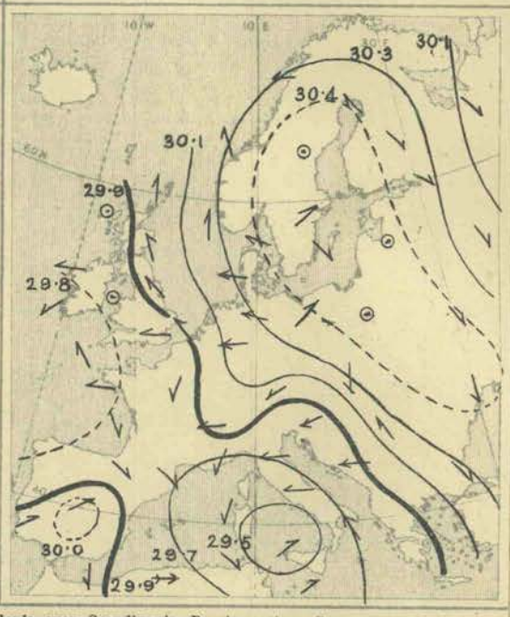
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



6 p.m.



Weather in morning fine and bright over the east of France and western Germany, Scandinavia, and the Baltic; cloudy or overcast in most other places, and very unsettled over the Mediterranean. Rain falling at several of our northern and north-western stations, at Biarritz, and on some parts of the Mediterranean coasts. Rain later over all the northern, western, and south-western parts of our Islands, and 0·3 in. at Biarritz, and larger amounts over Algeria and some parts of Italy—none at Perpignan nor Nice.

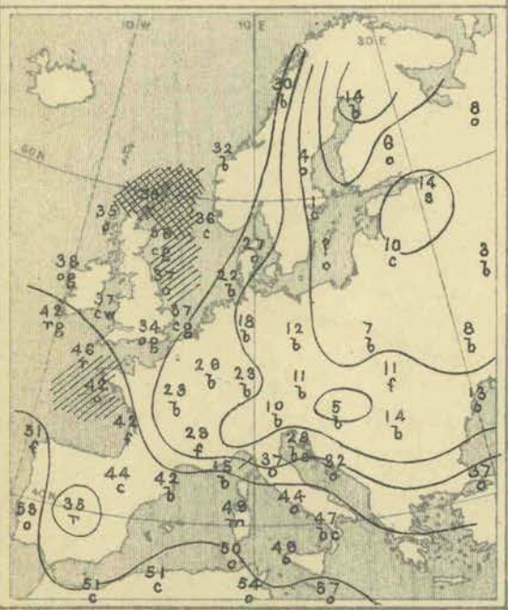
Temperature in morning, 60° at Malta, and exceeding 50° on the southern and eastern shores of the Mediterranean and Adriatic generally; exceeding 40° over southern Europe, and on the extreme northern, western, and south-western coasts of the British Islands; much lower elsewhere. Lowest, (1) −7° at Haparanda. −1° at Kuoplo and St. Petersburg, +2° at Helsingfors and Hangö, 8° at Hernösand; (2) 7° at Breslau, 8° at Cracow, 11° to 17° over south-eastern Europe and the south of Russia; (3) 24° to 25° over western Germany and the east of France, 26° at the Helder. Not reaching 40° over the midland and eastern parts of England later, but rising to 50° and more on our extreme south-western coasts, the south of France, and in Algeria, and to 60° and more in the south of Italy.

Wind very variable. Anticyclonic over Scandinavia, Russia, eastern Germany, and Austria-Hungary; South-Easterly over the United Kingdom as a whole—moderate to fresh in the east, light and variable in the west; mainly Easterly over France. A well-marked cyclonic circulation of strong winds prevalent over the Mediterranean—strong South-Westerly on the Algerian coasts, North-Easterly in the south of France. Backing to North-East over Ireland later, not much change elsewhere.

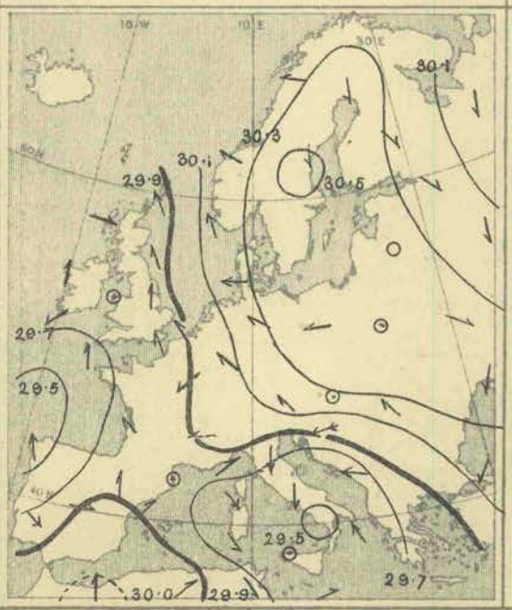
Barometer highest, 30·5 ins. and more to 30·1 ins. in a large anticyclone covering Scandinavia, the Baltic, the western half of Russia, Germany, and Austria. Lowest, 29·8 ins. and less over Ireland and off our south-western coasts; 29·6 ins. and less in a large depression over the Mediterranean, and 29·9 ins. and less over north-eastern Russia. Rising over Scotland and the north of Ireland later, little change elsewhere.

Wednesday, 20th January.

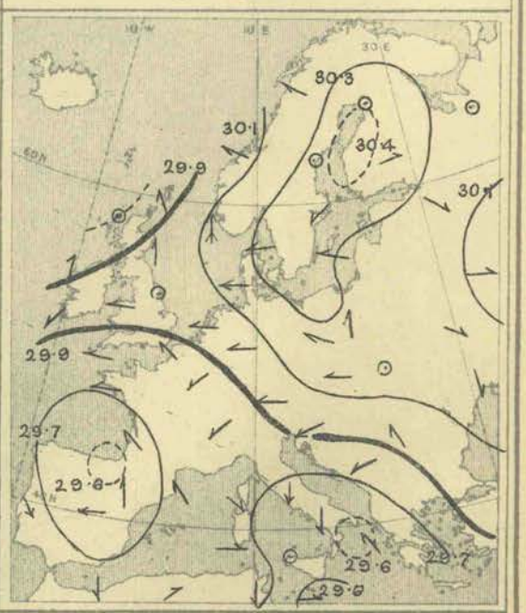
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



6 p.m.



Weather in morning very quiet and fair over northern, central, and south-eastern Europe—clear and bright at many stations, especially over Austria and eastern Germany; less fair over north-eastern and central Russia on the one hand, and over the Bay of Biscay and south-west of our Islands on the other; snow reported at St. Petersburg. Some rain later at some of the western and northern stations and slight snow at Oxford and Windsor. Heavy rain over southern Italy.

Temperature fallen somewhat in most places, risen over Finland and west of Lapland. Morning readings exceeding 50° on the Portugnese and Algerian coasts, at Malta, and at Brindisi; exceeding 40° at the other Mediterranean stations, and also in the extreme south-west of our Islands. Lowest, (1) −14° Fahr. at Haparanda, −7° at Hangö, +1° at Stockholm, 4° at Hernösand; (2) 3° at Moscow, 7° at Warsaw and Barcelona, 8° at Kiev, 11° at Lemberg, 13° at Odessa; (3) 5° at Vienna, 10° at Munich, 12° at Berlin, 25° at Paris. Above the freezing point over Great Britain generally. Rising to between 60° and more over Algeria and southern Italy later, exceeding 50° in the south-west and south of France, and 40° and 49° in the west and south-west of our Islands, but failing to reach 40° over the greater part of England.

Wind light and anticyclonic over northern and central Europe, light to moderate (and rather variable) from the South-Eastward over the United Kingdom, Southerly in the north of Spain, Easterly over Brittany. Easterly over central and south-eastern Europe also, and blowing hard over the northern parts of the Adriatic, Northerly over Italy, North-Westerly to Westerly over Tunis and Malta. Becoming still more variable over our Islands later, and remaining light in force; veering to the North-Westward over Portugal.

Barometer highest, 30·5 ins. to 30·2 ins. in a complex anticyclone covering Scandinavia, the Baltic, central and south-eastern Europe, and exceeding 30·0 ins. over Algeria. Lowest, 29·5 ins. and less in a low-pressure area spreading eastwards over the Bay of Biscay; 29·6 ins. and less in another large irregularly-formed system over the eastern parts of the Mediterranean, and below 30·1 ins. over northern Russia. Rising sharply over Ireland later, and slightly over Great Britain; depression over Bay of Biscay advancing south-eastwards to the Pyrenees, that over the Mediterranean undergoing some modification in depth and form.

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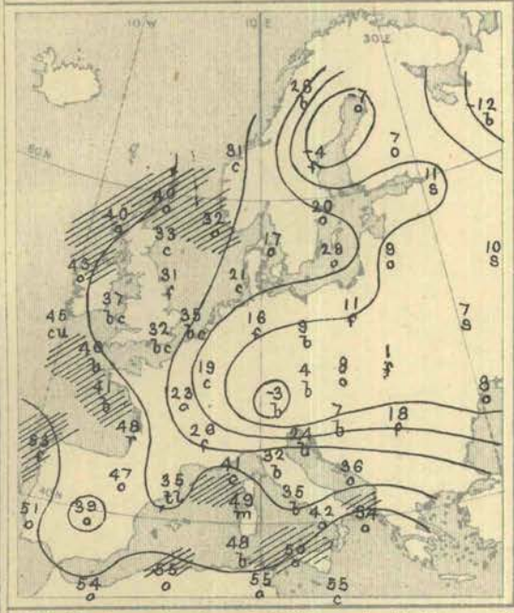
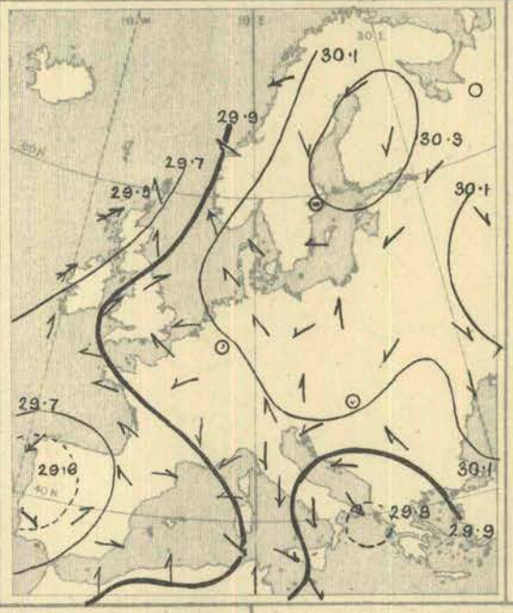
III.—SUMMARY OF WEATHER OVER EUROPE.

Thursday, 21st January.

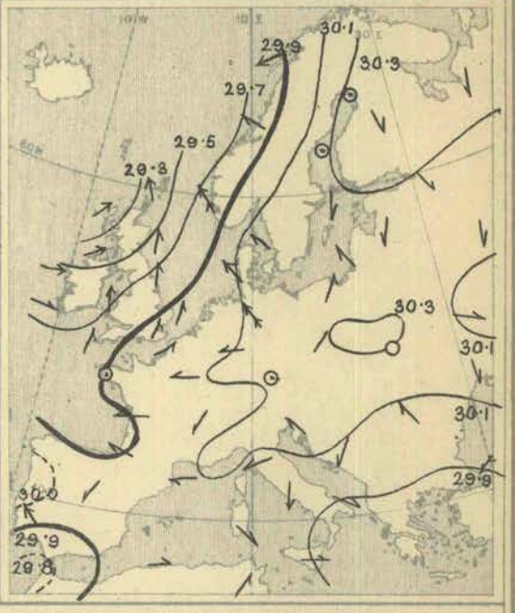
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fine and bright over Austria, Germany, Italy, and several parts of France, but foggy in several localities; cloudy or overcast in most other places, and changing to an unsettled squally condition in the extreme west. Rain later over the United Kingdom as a whole—heaviest (0·6 in. to 0·7 in.) in the west of Ireland, some snow over Sweden.

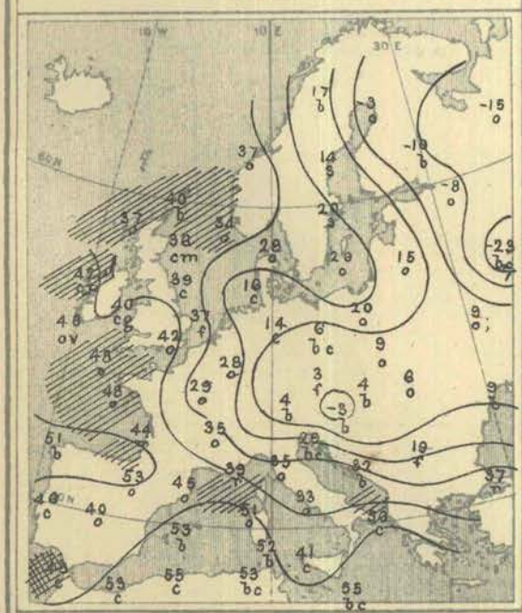
Temperature increasing at the Irish stations, but falling over the Continent and southern half of England. Morning readings exceeding 50° on the southern side of the Mediterranean and on the Portuguese coast, and touching 40°, or rather higher, in the Shetlands, Hebrides, the extreme west of Ireland, and the Scilly Islands; lower elsewhere. Frost prevalent over England, and hard frost over northern, eastern, and central Europe. Lowest values, (1) −12° at Archangel, −7° to zero Fahr. over the northern parts of Sweden, +7° at Kuopio, 9° to 13° over the Gulf of Finland and northern half of Russia; (2) −3° Fahr. at Munich, +4° at Prague and Kharkov, 5° at Warsaw, 7° at Buda-Pesth and Kiev; (3) 19° at Brussels, 23° at Paris, 31° at Oxford, Cambridge, and Loughborough. Rising decidedly over the United Kingdom later, and exceeding 40° in nearly all places.

Wind very light and variable (anticyclonic) over the Continent as a whole. Strong and cyclonic (but mainly Northerly) over Italy and the eastern parts of the Mediterranean, moderate Easterly over the Bay of Biscay, and strong to a gale from South-West and South at the western Irish stations and Stornoway. Increasing later to a moderate or fresh gale from the South-Eastward on the eastern shores of the North Sea. Backing to the Westward in the west of Ireland and gale moderating.

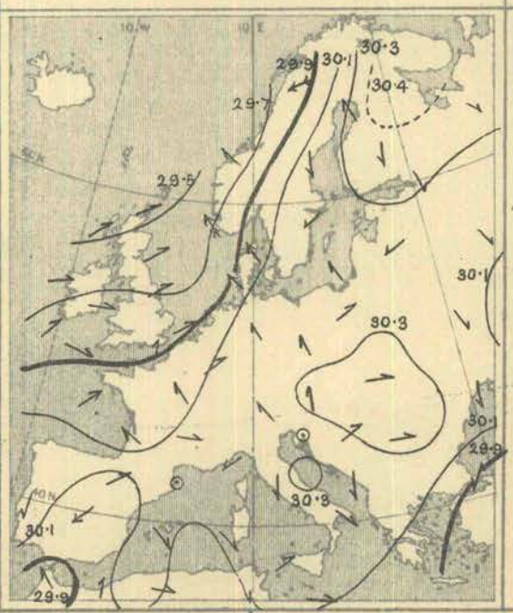
Barometer highest, 30·4 ins. and more to 30·2 ins. in an anticyclone stretching from northern Europe across the Baltic and Germany to Austria-Hungary. Lowest, about 29·5 ins. off our extreme north western coasts, and apparently over the Spanish Peninsula also; 29·8 ins. over Greece and the south-east of Italy, and 30·0 ins. and less over central Russia. Falling decidedly on our north-western and western coasts all day, and fall spreading eastwards somewhat.

Friday, 22nd January.

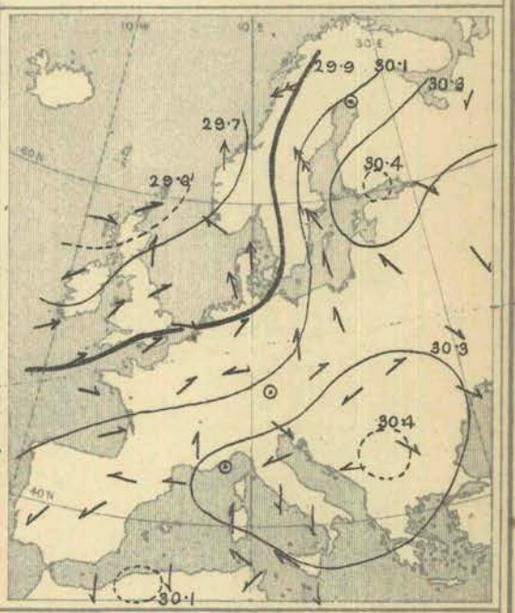
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning clear and bright over central, and some parts of northern and south-eastern Europe, also at some of the Spanish and Mediterranean stations; cloudy or overcast at our own stations, with rain in several places. Further falls of rain during day over the British Isles, Sweden, Germany, Holland, and the north of France, as well as at some of the most southern stations.

Temperature highest, 55° at Algiers and Malta, 54° at Barcelona, 53° at Biarritz, Palma, Oran, and La Calle, and above 50° at several Mediterranean stations; above 45° on the south coasts of the United Kingdom. Lowest, −23° Fahr. at Moscow, −15° at Archangel, −10° at Kuopio, −8° at St. Petersburg; below zero over northern and central Russia generally, and very little above it over Germany and Austria; below the freezing point over the Netherlands and central France. Rising during day to between 47° and 52° in the south and south-west of our Islands, and reaching 55° at Biarritz, 57° at Lisbon, and 60° or more over Algeria and the southern parts of Italy. Remaining below 40° in some of the northern and eastern parts of Great Britain.

Wind light or moderate from the South-Westward over the greater part of our Islands and the north of France; strong to a gale from the South-Eastward on the eastern shores of the North Sea. Light from the Northward or North-Westward over Sweden and Russia. Variable over Germany and Austria; North-Westerly or Westerly at most of the Italian stations; North-Easterly over the central and southern parts of Spain. No important change occurring during day.

Barometer highest, (1) 30·4 ins. and upwards over Lapland; (2) 30·3 ins. and upwards over Austria; (3) 30·2 ins. and upwards in an area lying to the westward of Portugal. Lowest, 29·5 ins. and less in a large shallow depression lying to the northward and north-westward of our Islands (small secondary disturbances passing across Ireland and England); 29·9 ins. and less in two other systems lying respectively over Asia Minor and the south of Russia. Very little change occurring over western Europe during day, but anticyclones over northern and south-eastern Europe increasing in intensity.

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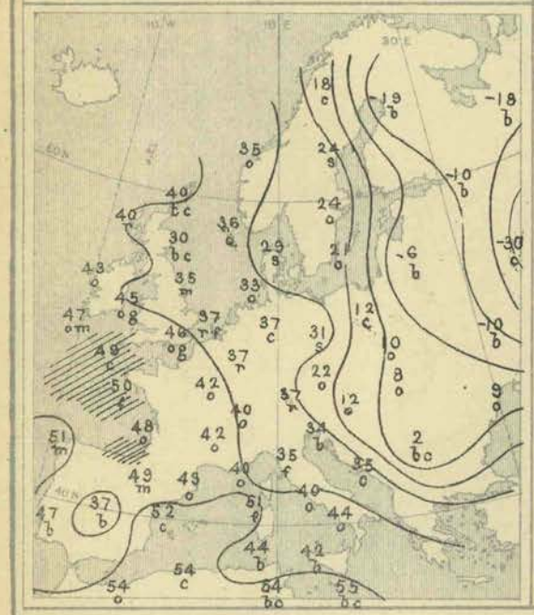
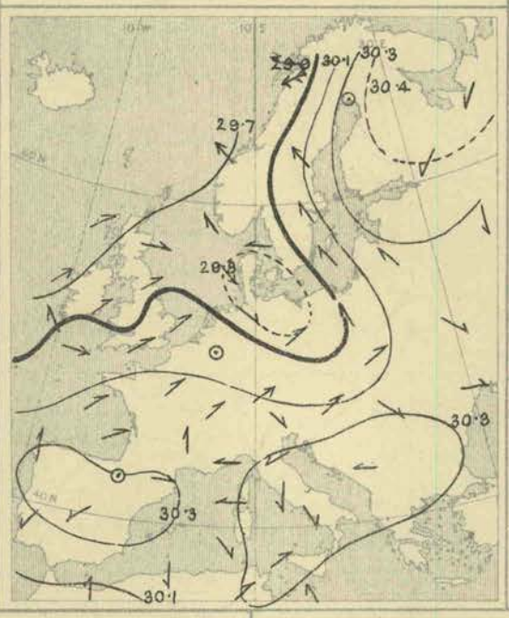
III.—SUMMARY OF WEATHER OVER EUROPE.

Saturday, 23rd January.

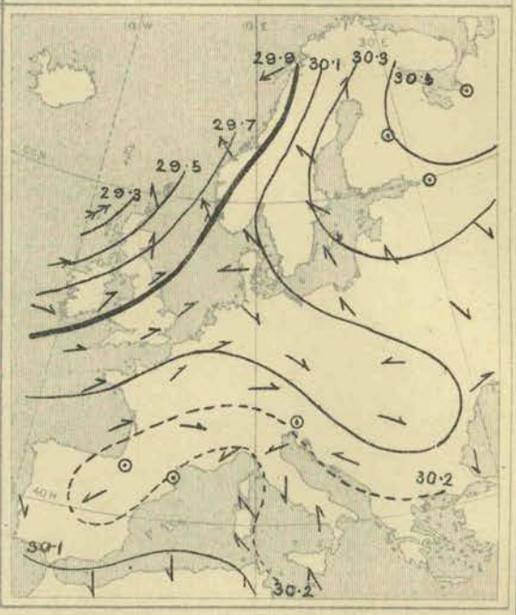
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fine and bright over northern and south-eastern Europe, as well as in several parts of the Iberian Peninsula and over some parts of the North Sea; cloudy, more or less, elsewhere, very foggy in the north-east, east, and south of England, with slight drizzle in places. A little rain later in the north and north-west, hail at Wick, and larger quantities of rain over Germany and the north of France.

Temperature risen, except over Russia, where very hard frost prevailed; rise greatest (33° in 24 hours) at Munich. Morning readings, 50° to 55° over the western and southern shores of the Mediterranean, exceeding 45° in the south and west of our Islands, and exceeding 40° even on our north-west coasts. Lowest, −30° Fahr. at Moscow, −19° at Haparanda, −18° at Archangel, −14° at Helsingfors, −10° at St. Petersburg and Kiev, and −8° at Riga. Daily maxima as high as 50° to 52° over the southern half of our Islands, and 54° to 59° in the south and west of France.

Wind very light and variable over eastern and southern Europe, light to moderate elsewhere; Westerly to South-Westerly at the north-western stations, South-Easterly to Easterly over Germany, the Baltic, and Scandinavia. Becoming strong from the South-Westward on our west and north-west coasts later, but not changing much elsewhere.

Barometer highest, (1) 30·4 ins. and more to 30·3 ins. over Finland and northern Russia; (2) 30·3 ins. and more over Italy, Sicily, and south-eastern Europe; (3) 30·3 ins. and more over the northern half of the Spanish Peninsula. Lowest, 29·7 ins. and less over our extreme north-western coasts and off the west of Norway, and 29·8 ins. and less in a well-marked secondary over Holstein and Mecklenburg-Schwerin. Gradients more decided over Sweden than elsewhere. Falling in the west and north of our Islands later as a depression moving north-eastwards skirted our north-west coasts.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟿ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During all the earlier half of this week pressure was highest (30·3 ins. to 30·6 ins.) over northern, central, and south-eastern Europe, and lowest in large but shallow disturbances lying over those parts of the Atlantic which are adjacent to our west coasts or the Bay of Biscay, and in separate systems over the Mediterranean. South-Easterly and Easterly winds and gales were consequently felt over the western countries, with rain or snow in several places, while anticyclonic airs and calms were felt in the north and east of Europe. Over the Mediterranean also a good deal of rain fell and strong cyclonic breezes were experienced from time to time.

After Thursday a change took place. Pressure gave way a little over northern Europe but increased in the south-east, and South-Westerly winds spread over north-western Europe with rising temperatures and unsettled weather, but over northern and eastern Europe the cold became very intense; on Saturday morning the thermometer at Stockholm stood at 62° Fahr. below the freezing point.

BRIGHT SUNSHINE Values for the Week in addition to those found on page 14.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	0·0	?	0	?	EASTBOURNE	12·9	?	22	?
OSWALDKIRK (Yorkshire)					TENBY	0·8 *	?	1*	?
WORKSOP	0·1	− 8·6	0	−15	NEWQUAY	15·7	?	26	?
THURCASTON (Leicestershire)	2·1	− 5·9	4	−10	TORQUAY	4·3 *	?	7*	?
MARGATE	8·6	?	15	?	ARLEY COTTAGE (County Cavan)	0·0	?	0	?
BRIGHTON	8·4	?	14	?	GUERNSEY	0·8 *	?	1*	?

* The values at Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.
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VOL. IX. No. 4.] *Third Series.* WEEK ENDING SATURDAY, 30TH JANUARY, 1892. [*Price 6d.* [*Annual subscription, post paid, £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years' observations (1871–90). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the ten years 1881-90. RAINFALL.—*The Mean amounts* are those for the corresponding periods in the twenty-five years 1866–90, but the *Mean numbers of Rainy Days* are those for the ten years 1881-90, only. BRIGHT SUNSHINE.—*The Mean values* employed are those for the corresponding periods in the ten years 1881–90.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 20.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1892. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	55	33	47·2	37·3	42·4	4 above.	23	+16	13	−21	23	− 7	194	+ 62
	1. SCOTLAND, EAST -	59	30	48·3	35·9	42·4	5 above.	28	+20	17	−22	28	− 5	214	+ 54
	2. ENGLAND, N.E. - -	56	31	48·0	37·5	43·0	5 above.	26	+19	13	−23	26	0	196	+ 45
	3. ENGLAND, EAST -	54	28	47·7	35·5	41·8	4 above.	16	+ 8	28	−13	16	−12	235	+ 60
	4. MIDLAND COUNTIES	55	25	48·5	38·0	42·5	4 above.	29	+18	17	−24	29	− 7	230	+ 55
	5. ENGLAND, SOUTH -	53	26	47·6	36·5	42·3	3 above.	25	+14	15	−16	29	−12	171	+ 38
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	55	34	48·9	39·6	44·5	5 above.	28	+18	7	−21	28	−12	159	+ 40
	7. ENGLAND, N.W. -	53	33	46·9	39·8	43·5	4 above.	20	+12	6	−23	20	−13	163	+ 39
	8. ENGLAND, S.W. -	53	25	48·2	38·5	43·5	2 above.	25	+ 9	10	−12	35	−25	143	+ 52
	9. IRELAND, NORTH -	55	30	48·5	39·2	44·1	3 above.	26	+12	8	−17	26	−29	142	+ 39
	10. IRELAND, SOUTH -	57	27	50·7	40·3	45·7	3 above.	33	+13	5	−14	44	−37	134	+ 54
	— CHANNEL ISLANDS -	52	34	43·8	42·0	46·1	2 above.	29	+ 8	0	− 8	65	−19	55	+ 14

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 20.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1892. Number of Rainy Days.	Difference from Mean.	Total Fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1892. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of In.	10ths of In.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	7	21	10 more.	23	+ 3	5·1	+ 0·1	7	+ 3	13	+ 6	22	0	11	0
	1. SCOTLAND, EAST -	4	3	3 less.	15	+ 1	2·2	− 0·4	14	+10	26	+18	34	−11	16	− 6
	2. ENGLAND, N.E. - -	2	1	3 less.	13	0	1·3	− 0·5	12	+ 8	21	+14	32	+ 1	15	+ 1
	3. ENGLAND, EAST -	4	2	2 less.	15	+ 1	1·0	− 0·8	15	+ 3	26	+ 5	42	− 2	19	− 1
	4. MIDLAND COUNTIES-	3	2	4 less.	16	+ 2	1·5	− 0·7	13	+ 2	22	+ 4	44	+ 7	19	+ 2
	5. ENGLAND, SOUTH -	3	1	5 less.	13	− 1	0·9	− 1·6	13	+ 1	22	+ 2	50*	+12	22	+ 5
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	7	21	8 more.	21	+ 3	4·5	− 0·9	9	− 1	15	0	35	+ 5	16	+ 2
	7. ENGLAND, N.W. - -	4	9	2 more.	19	+ 4	3·1	+ 0·2	9	− 2	15	− 2	34	1	15	0
	8. ENGLAND S.W. - -	4	5	5 less.	17	0	2·2	− 1·6	17	+ 3	28	+ 7	58	+15	25	+ 6
	9. IRELAND, NORTH -	6	8	1 more.	20	+ 2	2·7	− 0·5	8	− 5	13	− 5	35	− 3	16	− 2
	10. IRELAND, SOUTH -	4	5	5 less.	17	0	2·6	− 1·2	9	− 5	16	− 6	45	− 4	20	− 2
	— CHANNEL ISLANDS -	4	1	6 less.	22	+ 4	1·9	− 1·3	18	+ 1	29	+ 2	47	−16	20	− 6

Bright Sunshine.—For several of the stations there are no "mean" values available, and the "difference from the mean" in some of the districts is consequently that of only a few of the stations.

General Remarks.

Weather this week was mild and humid in all parts of the Kingdom; very frequent and heavy falls of rain occurred in the extreme north and north-west, but in the more eastern and southern districts the fall was slight and less frequent, and some bright intervals were experienced.

Temperature was above the mean in all districts, the excess ranging from 2° in England S.W. and the Channel Islands to as much as 5° in Scotland E. and W. and England N.E. The highest of the maxima were recorded at most stations on the 29th, when they varied from 59° in Scotland E., 57° in Ireland S., and 56° in England N.E., to 52° in the Channel Islands. The lowest of the minima were registered either on the 24th or 25th, and ranged from 25° in the Midland Counties to 34° in Scotland W. and the Channel Islands.

Rainfall was considerably more than the mean in the north and west of Scotland, and rather more in the north of Ireland and north-west of England. On the 28th the amount which fell at Laudale was 3·28 ins., and that at Fort William 2·03 ins. In all other districts, however, there was a deficit. Over the eastern and southern districts the fall was very slight.

Bright Sunshine was much more prevalent than during the preceding week, and exceeded the mean in nearly all districts. The percentage of the possible duration ranged from 13 in Ireland N. and Scotland N. and 15 in England N.W. and Scotland W. to 29 in England S.W. and the Channel Islands.

Barometer and Wind.—During the whole of this period pressure was highest in the south-west or south, and some large and deep disturbances passing eastwards in the far north caused rather steep gradients for Westerly winds over the whole Kingdom. Fresh to strong Westerly winds were consequently very general, and at times attained the force of a gale, especially at the more western and northern stations.

* This value has been altered owing to the receipt of further information.

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II.—DATA from which the SUMMARY on page 19 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	48	36	44·6	38·6	41·7	+ 2·3	7	14	7	1·23	+0·40	*	*	*	*
	Stornoway	53	35	47·9	36·4	42·4	+ 3·0	26	16	7	0·80	−0·33	12·2	+ 3·5	23	+ 6
	Wick	? 52	? 34	? 44·6	? 36·1	? 42·1	? + 3·9	?45	?17	7	1·15	+0·68	*	*	*	*
	Lairg	51	33	45·0	35·1	40·3	+ 3·7	8	28	7	1·99	+1·21	*	*	*	*
	Glencarron												*	*	*	*
	Fort Augustus	53	34	48·8	37·0	43·1	+ 4·1	29	14	7	2·47	+1·45	6·2	?	11	?
	Fort William	55	38	49·0	40·5	44·9	+ 5·3	27	4	7	4·97	+2·73	3·5	?	6	?
1. SCOTLAND, E.	Nairn	55	32	47·7	36·3	42·2	+ 4·1	25	16	7	0·56	+0·15	*	*	*	*
	Aberdeen	58	30	48·9	36·4	42·9	+ 4·7	30	16	2	0·25	−0·27	23·7	+10·0	43	+18
	Braemar	50	33	44·8	35·3	40·2	+ 5·1	8	26	4	0·47	−0·25	9·2 †	?†	17†	?†
	Ochtertyre	59	30	51·0	35·4	43·5	+ 6·6	38	16	4	0·36	−0·79	*	*	*	*
	Leith	55	32	49·3	37·0	43·4	+ 3·8	31	14	5	0·14	−0·28	*	*	*	*
	Marchmont	57	30	48·1	35·1	41·9	+ 4·7	17	31	2	0·06	−0·54	14·3	?	25	?
2. ENGLAND, N.E.	Alnwick Castle	53	35	47·6	33·7	43·3	+ 5·1	22	9	1	0·03	−0·47	*	*	*	*
	Durham	55	33	48·8	37·8	43·5	+ 6·1	28	12	1	0·02	−0·42	17·8	+ 6·1	31	+12
	Shields	55	34	49·7	38·9	43·1	+ 4·0	33	17	1	0·01	−0·39	*	*	*	*
	Scarborough	56	34	47·4	39·1	43·4	+ 4·4	22	8	2	0·31	−0·14	*	*	*	*
	York	53	31	49·3	36·7	43·3	+ 5·0	31	15	2	0·27	−0·16	?	?	?	?
	Spurn Head	50	34	45·1	37·0	41·2	+ 2·7	9	21	2	0·17	−0·15	*	*	*	*
3. ENGLAND, E.	Hillington	53	28	47·1	36·1	41·8	+ 3·8	14	26	4	0·17	−0·25	13·9	+ 2·0	24	+ 5
	Yarmouth	52	29	46·9	34·4	40·9	+ 2·6	14	32	3	0·25	−0·20	*	*	*	*
	Geldeston	53	29	47·4	36·8	42·3	+ 3·3	24	15	4	0·23	−0·13	17·2	+ 3·5	29	+ 7
	Cambridge	54	28	49·6	34·7	42·5	+ 4·1	34	20	3	0·15	−0·22	15·5	+ 2·9	26	+ 6
	Rothamsted	52	28	47·5	35·5	41·7	+ 3·9	15	28	4	0·19	−0·39	15·0	?	25	?
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	54	32	49·3	37·3	43·5	+ 5·3	30	13	3	0·24	−0·16	*	*	*	*
	Loughborough	55	29	49·7	36·9	43·6	+ 5·2	33	14	3	0·11	−0·37	*	*	*	*
	Stamford (Ketton Hall)	53	27	49·7	34·9	42·6	+ 4·2	34	20	3	0·06	−0·33	*	*	*	*
	Cheadle	51	31	46·3	37·1	41·9	+ 4·7	12	22	4	0·37	−0·21	*	*	*	*
	Churchstoke	51	29	48·4	37·3	43·1	+ 4·7	27	13	3	0·13	−0·54	13·2	+ 1·3	22	+ 3
	Hereford	52	27	49·7	36·8	43·5	+ 4·1	32	15	3	0·08	−0·49	*	*	*	*
	Cirencester	51	25	46·9	32·1	39·8	+ 1·6	14	40	2	0·14	−0·56	14·1	+ 2·2	23	+ 3
	Oxford	51	28	48·0	35·6	42·1	+ 2·8	28	18	3	0·08	−0·43	13·7	+ 2·5	23	+ 5
5. ENGLAND, S.	London	53	29	48·7	35·6	42·4	+ 2·8	30	18	3	0·14	−0·34	7·6 †	+ 0·6†	13†	+ 3†
	North Foreland	50	32	47·0	37·1	42·3	+ 2·5	23	14	4	0·29	?	*	*	*	*
	Strathfield Turgiss	51	26	47·7	35·4	41·8	+ 3·1	16	29	3	0·11	−0·43	*	*	*	*
	Dungeness	51	27	48·0	34·4	41·5	+ 1·4	17	33	4	0·13	−0·45	*	*	*	*
	Hastings (St. Leonards)	49	33	45·3	38·0	41·8	+ 1·5	9	17	5	0·18	−0·42	15·2	+ 0·2	25	+ 2
	Southampton	53	29	49·4	38·2	44·0	+ 3·7	30	11	2	0·06	−0·66	13·0	+ 0·9	21	+ 2
	Hurst Castle	51	30	45·1	37·3	42·9	+ 1·9	26	13	2	0·05	−0·64	*	*	*	*
	Stowell	51	31	46·8	36·3	41·8	+ 2·8	13	25	4	0·15	?	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	53	35	51·2	37·5	44·6	+ 4·4	37	13	7	6·34	+4·34	*	*	*	*
	Glasgow	51	35	47·6	39·4	43·7	+ 4·8	23	7	7	0·82	−0·13	5·2	− 1·9	9	− 2
	Ardrossan	53	39	48·4	41·4	45·0	+ 4·5	24	2	6	0·76	−0·19	*	*	*	*
	Glenlee	55	34	48·6	38·7	43·9	+ 6·0	27	9	7	1·67	−0·02	*	*	*	*
	Douglas (Isle of Man)	52	35	48·8	41·0	45·1	+ 4·3	26	3	6	0·93	−0·09	12·0	+ 1·8	20	+ 2
7. ENGLAND, N.W.	Newton Reigny	52	33	47·1	37·2	42·4	+ 5·1	23	13	5	0·75	−0·10	7·3	− 3·2	13	− 5
	Stonyhurst	48	34	45·0	38·4	41·8	+ 3·2	8	15	5	2·15	+1·25	7·9	− 1·9	13	− 3
	Blackpool	47	38	44·2	39·5	41·9	+ 3·3	6	11	5	0·62	−0·04	9·7	+ 0·4	17	+ 1
	Manchester	51	38	46·6	41·1	44·0	+ 5·6	18	3	5	1·24	+0·59	*	*	*	*
	Liverpool Obsy. (Bidston)	52	33	48·1	39·7	44·1	+ 4·0	24	6	4	0·47	−0·01	*	*	*	*
	Llandudno	51	35	48·5	40·6	44·7	+ 2·9	25	4	3	0·46	−0·14	9·8	− 0·6	17	− 3
	Holyhead	53	40	48·9	42·4	45·8	+ 5·5	27	0	4	0·56	−0·16	*	*	*	*
8. ENGLAND, S.W.	Llandovery	52	26	48·0	33·1	40·9	− 0·2	17	38	5	1·12	−0·03	*	*	*	*
	Pembroke	50	40	47·4	43·3	45·4	+ 2·8	24	0	5	0·32	−0·49	14·7	+ 1·6	25	+ 3
	Arlington (N. Devon)	47	31	45·4	37·0	41·4	+ 1·5	10	21	7	0·90	−0·10	*	*	*	*
	Cullompton	51	28	49·2	36·5	43·1	+ 2·9	31	15	3	0·25	−0·50	16·1	+ 5·6	26	+10
	Falmouth	51	36	48·9	41·4	45·3	+ 1·7	26	2	2	0·16	−1·04	18·3	+ 5·3	30	+10
	Plymouth	51	39	49·1	40·0	44·7	+ 2·4	27	6	4	0·17	− 0·72	15·6	+ 3·7	25	+ 6
	Prawle Point	53	30	49·1	38·1	43·8	+ 1·7	29	11	3	0·20	−0·48	*	*	*	*
9. IRELAND, N.	Malin Head	49	37	47·0	40·1	43·7	+ 2·6	20	5	7	0·70	?	*	*	*	*
	Londonderry	54	35	49·2	38·9	44·4	+ 2·8	30	9	6	0·69	−0·20	*	*	*	*
	Mullaghmore	51	38	47·9	41·4	44·8	+ 2·5	22	2	7	1·05	+0·15	*	*	*	*
	Belmullet	51	38	48·4	42·4	45·5	+ 2·9	25	0	7	1·78	?	*	*	*	*
	Markree Castle	53	30	48·6	38·3	43·7	+ 3·5	27	10	7	1·02	+0·27	6·6	− 5·2	11	− 8
	Brookeborough	52	30	48·2	38·5	43·5	+ 4·4	25	10	6	1·00	+0·05	*	*	*	*
	Armagh	55	33	49·0	38·5	44·0	+ 4·7	27	10	5	0·44	−0·19	8·8	− 3·2	15	− 4
	Donaghadee	55	33	49·1	37·9	43·7	+ 2·8	29	11	7	0·25	−0·39	*	*	*	*
	Edgeworthstown	? 55	33	49·0	37·0	43·2	+ 3·8	29	14	6	0·56	−0·12	*	*	*	*
10. IRELAND, S.	Dublin	54	36	50·4	40·8	45·8	+ 3·7	32	3	6	0·14	−0·36	13·0	− 0·5	22	− 1
	Parsonstown	52	33	50·3	39·3	45·0	+ 4·3	32	8	4	0·55	−0·11	4·9	− 7·9	8	−13
	Kilkenny	54	27	50·3	37·1	44·0	+ 2·3	35	14	4	0·3	−0·40	*	*	*	*
	Waterford	57	29	51·5	38·4	45·2	+ 2·1	38	10	3	0·15	−0·89	*	*	*	*
	Roche's Point	56	34	51·1	40·4	46·0	+ 2·1	35	4	2	0·40	−0·72	*	*	*	*
	Valencia	52	34	51·1	42·4	46·9	+ 1·8	34	0	6	0·82	−0·63	9·9	− 4·8	17	− 7
	Killarney	55	29	51·1	40·3	45·9	+ 1·7	34	5	4	0·81	?	*	*	*	*
	Foynes	53	36	49·9	43·8	47·0	+ 4·1	35	0	5	0·58	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	52	40	49·9	43·4	46·8	+ 0·8	34	0	3	0·14	−0·67	*	*	*	*
	Jersey	52	34	49·7	40·6	45·3	+ 2·8	29	4	5	0·12	−0·56	18·2	+ 0·8	29	+ 2

Stations marked ℛ are in connection with the Royal Meteorological Society, and those marked 𝒮 with the Scottish Meteorological Society.

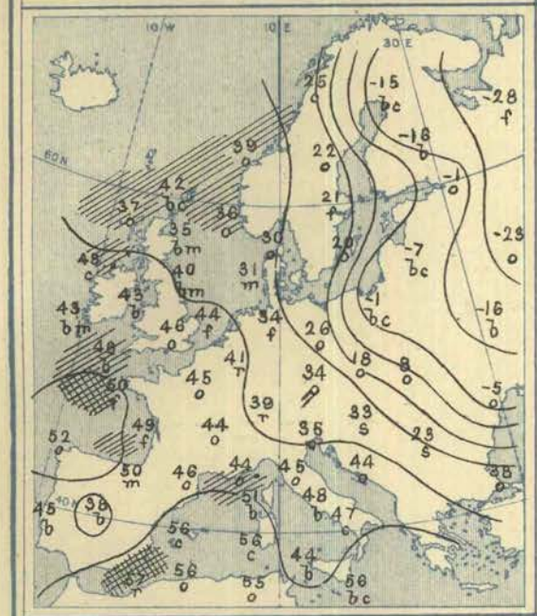
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory and the Meteorological Office, Victoria Street. For additional Reports of Sunshine see last page.

III.—SUMMARY OF WEATHER OVER EUROPE.

Sunday, 24th January.

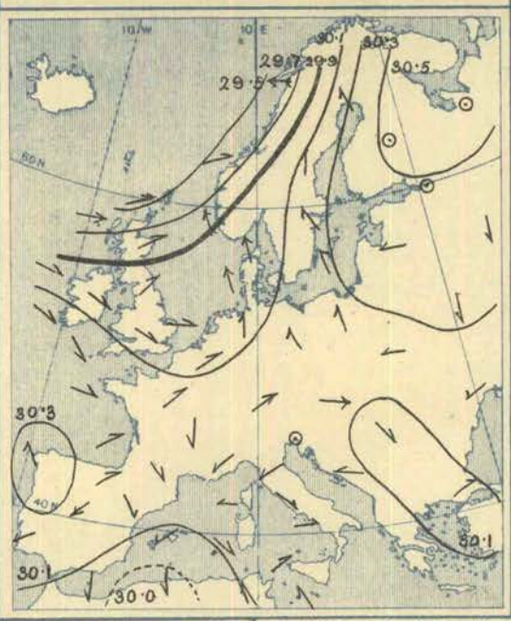
Temperature and Weather. — 8 a.m.

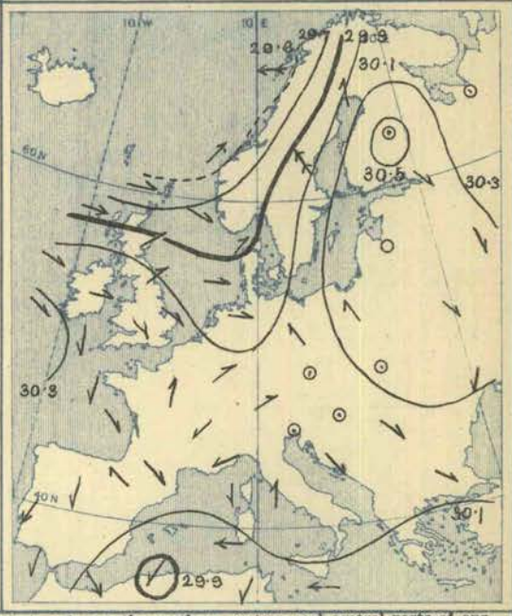


Weather fine over the greater part of the United Kingdom, but showery on our extreme north-west coasts. Fine also over Poland, the Baltic Provinces, and the southern parts of Spain and Italy, but dull over the Continent generally, with fog over Holland, north Germany, and the west and north of France, rain at Brussels and Munich, and snow in Austria, as well as at Stockholm. Rain falling later in many parts of France and Germany, but sky clearing at the Russian stations. Thunderstorm occurring at Algiers and lightning seen at Wick.

Temperature highest, 58° at Nemours, 56° at Palma, Algiers, and Malta, 55° at La Calle, and 54° at Oran; above 45° at nearly all the Mediterranean stations as well as on the coasts of France and Spain and in the south and south-east of England. Lowest, −28° Fahr. at Archangel, −26° at Kharkov, −23° at Moscow, and −17° at Uleaborg; below zero over Russia generally, and also in the north of Sweden; considerably below the freezing point over north Germany and the south of Sweden. Hard frost continuing all day over northern and eastern Europe, but thermometer rising to between 45° and 53° at most of the English stations, and reaching 55° or more over Spain and the southern parts of France and Italy.

Barometer and Wind. — 8 a.m. and 6 p.m.



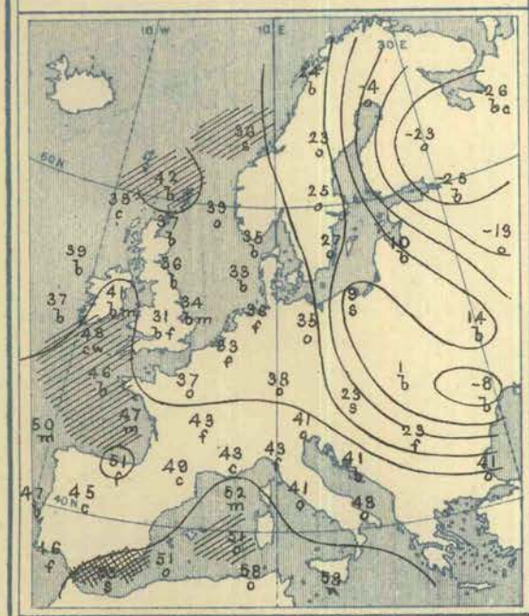


Wind light to fresh from the Westward over the northern, eastern, and central parts of our Islands, but North-Westerly in the south-west. Light from the South-Westward over France and the Netherlands. Strong to a gale from the South-Eastward or Southward on the eastern shores of the North Sea; light or moderate from the same quarters over Sweden and the Baltic. Chiefly Northerly in Russia and North-Westerly in Austria, but variable in Italy. North-Easterly in Spain and Northerly in Algeria. No important change occurring during day.

Barometer highest, 30·5 ins. and upwards over northern Russia; 30·2 ins. and upwards in a large anticyclone of irregular form lying over the Bay of Biscay, Spain, the south of France, and the greater part of Italy. Lowest, 29·5 ins. and less in a large depression lying to the northward of our Islands and the westward of Norway. Depression subsequently filling up, barometer rising generally, and new anticyclone advancing towards our south-west coasts from Atlantic.

Monday, 25th January.

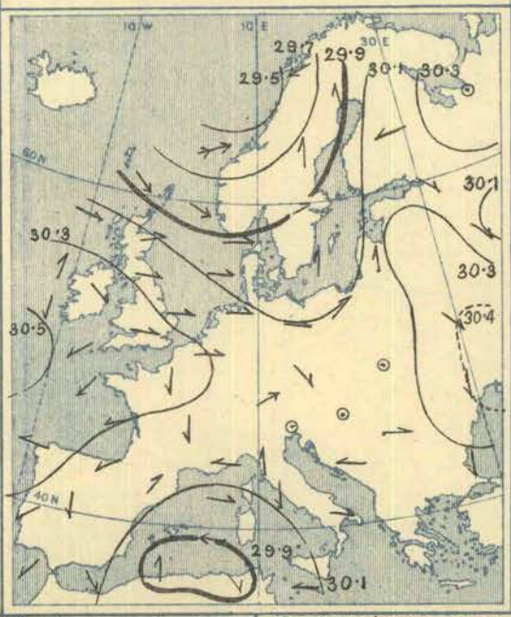
Temperature and Weather. — 8 a.m.

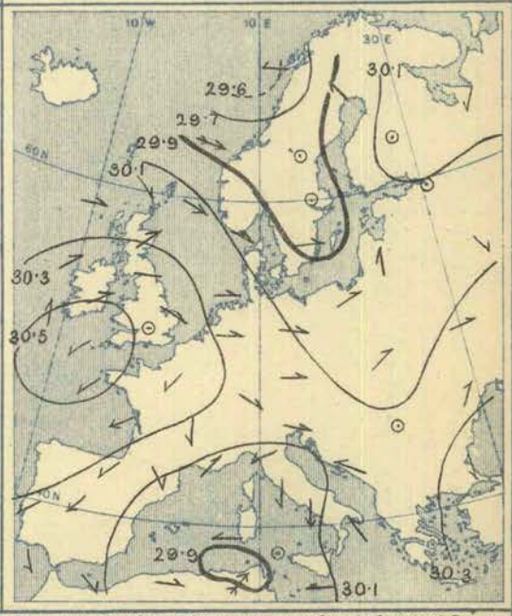


Weather fine over the greater part of the United Kingdom, but with fog or haze in some few places. Fine also over Denmark, Holland, and a considerable portion of Russia, but dull in most of the other continental countries, with fog over north Germany, Belgium, the south of France, and northern Italy, and with snow at Christiansund, Neufahrwasser, Cracow, and Buda-Pesth. Rain setting in later in the extreme north and north-west of our Islands. Large quantities falling in Algeria and many parts of southern Italy.

Temperature highest, 58° at La Calle and Malta, 56° at Tunis, 53° at Oran, and 52° at Bilbao; above 45° at the Spanish and Mediterranean stations generally, as well as on the shores of the Bay of Biscay. Lowest, −26° Fahr. at Archangel, −25° at St. Petersburg, −23° at Kuopio, −22° at Kharkov, and −13° at Moscow; below zero over Russia generally, and also in the north of Sweden; below the freezing point in the south-east of England, but above it in Germany and some parts of Austria. Rising during day to 45° and upwards in many parts of the United Kingdom; exceeding 50° in the south of France, and exceeding 60° over Spain, Algeria, and the south of Italy, the highest reading of all being 66° at Palermo and Tunis.

Barometer and Wind. — 8 a.m. and 6 p.m.





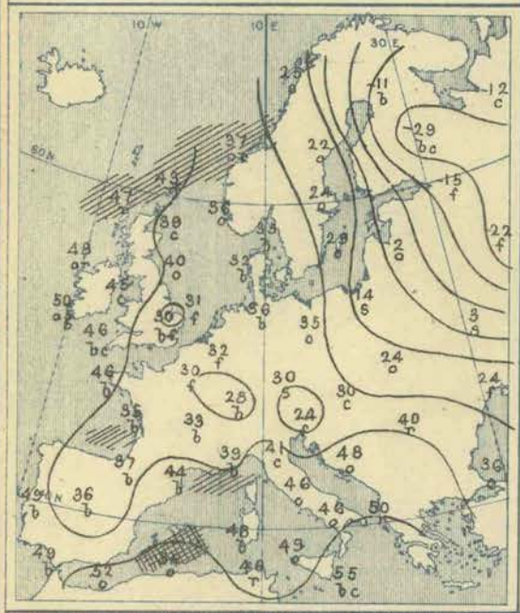
Wind light or moderate from the Westward over the northern, eastern, and central parts of Great Britain, as well as on the eastern shores of the North Sea; Southerly or South-Easterly over Sweden and the Baltic. Light from the South-Westward in the north of Ireland, from the North-Westward or Northward in the west and south of our Islands, and from North or North-East over France and Spain. Variable over Italy, Austria, and Russia. Cyclonic circulation reported over Algeria. Subsequently backing to the Southward over Ireland generally; no important change occurring elsewhere.

Barometer highest, 30·6 ins. and upwards in a small anticyclone lying over the south of Russia; 30·4 ins. and upwards in another system lying over the north of Russia, and also in a larger area extending from the Atlantic over Ireland, Wales, the south-west of Ireland, and the north-west of France. Lowest, 29·5 ins. and less in a depression lying off the west of Norway, 29·9 ins. and less in another disturbance lying over Algeria. Norwegian depression subsequently moving slowly north-eastwards, but fresh disturbance beginning to approach our extreme north-west coasts. Algerian depression partially filling up.

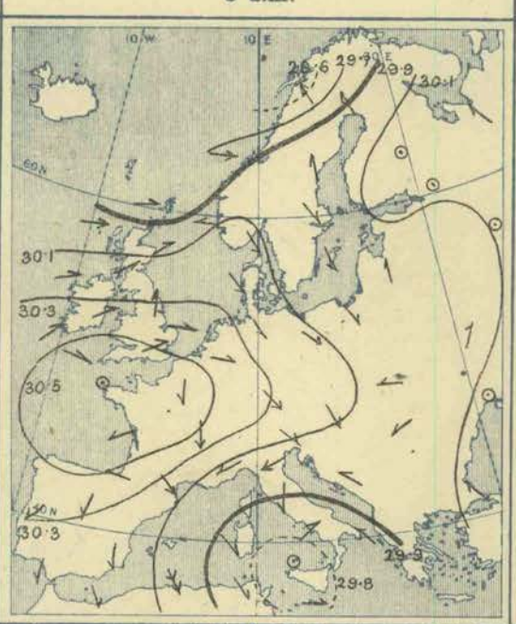
Judd & Co Ltd, Lith. 63, Carter Lane, Doctors' Commons.

Tuesday, 26th January.

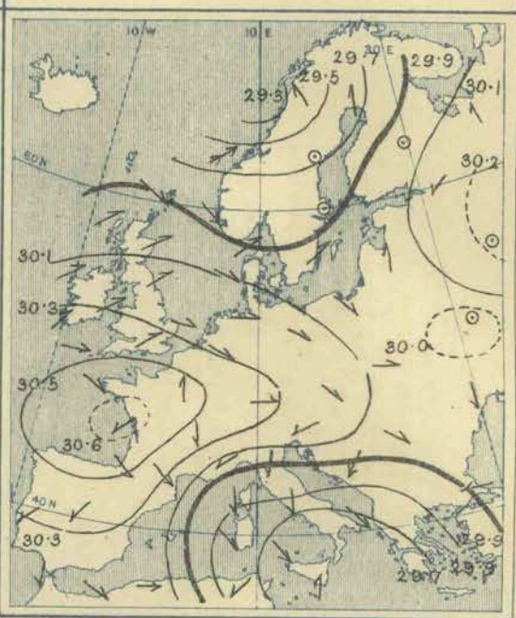
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather fine over the southern parts of the United Kingdom, as well as over France, Spain, the Netherlands, Denmark, and northern Russia; foggy at some of our southern and the French stations. Dull elsewhere, with rain in the north-west and extreme north of our Islands, as well as in some parts of Italy, Austria, and Algeria; snow falling at Bodö, Memel, and Kiev. Dull, unsettled weather extending later to nearly all parts of the United Kingdom; heavy rain falling in some parts of Algeria and southern Italy.

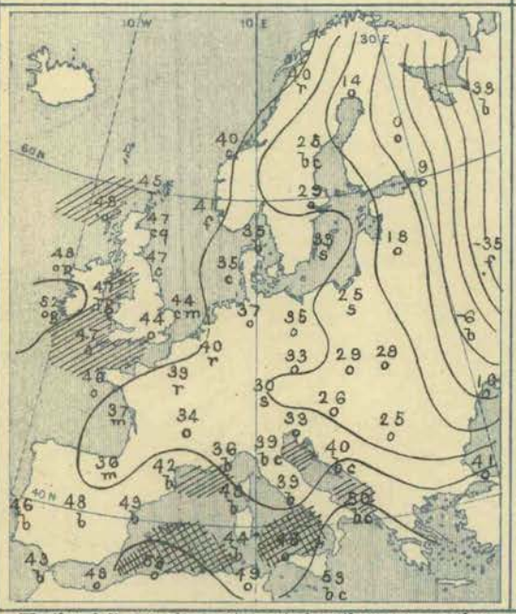
Temperature highest, (1) 56° at Algiers, 55° at Malta, 52° at Oran, and 50° at Brindisi; (2) 50° at Valencia Island, 48° at Belmullet, and 47° at Stornoway, Malin Head, and Mullaghmore. Lowest, −29° Fahr. at Kuopio, −22° at Moscow, −15° at Helsingfors and St. Petersburg, and −12° at Archangel and Kharkov; below zero at most of the Russian stations, below the freezing point over Scandinavia and central Europe, as well as in the south-east of England. Considerable rise taking place over England later, but thermometer remaining low over central Europe. Daily maxima exceeding 60° in many parts of Spain and Algeria, as well as in Sicily, the highest reading of all being 64° at Algiers and Palermo.

Wind moderate to fresh from the South-Westward or Westward in the west and north of our Islands, but light from the North-Westward in the south of England, as well as over the Netherlands, Denmark, Germany, and Austria. Somewhat variable in Russia, but chiefly Southerly. Northerly or North-Easterly in France and Spain, North-Westerly in Algeria, Southerly or South-Easterly in the south of Italy. Subsequently backing to the Westward or South-Westward in the south of England; no important change occurring on Continent.

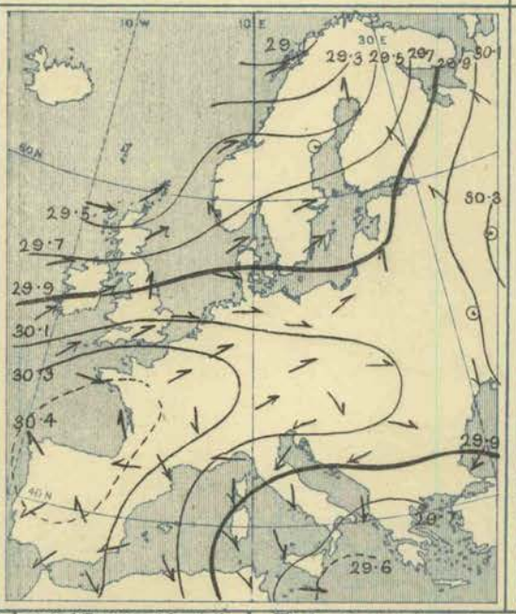
Barometer highest, 30·5 ins. and upwards in a well-marked anticyclone lying over the Bay of Biscay and France; 30·1 ins. and upwards in a large system lying over Russia. Lowest, 29·6 ins. and less in a depression lying off the north-west of Norway; 29·8 ins. and less in a shallow disturbance lying over Sicily and the neighbouring parts of the Mediterranean. Latter depression subsequently increasing somewhat both in size and intensity and moving slowly eastwards.

Wednesday, 27th January.

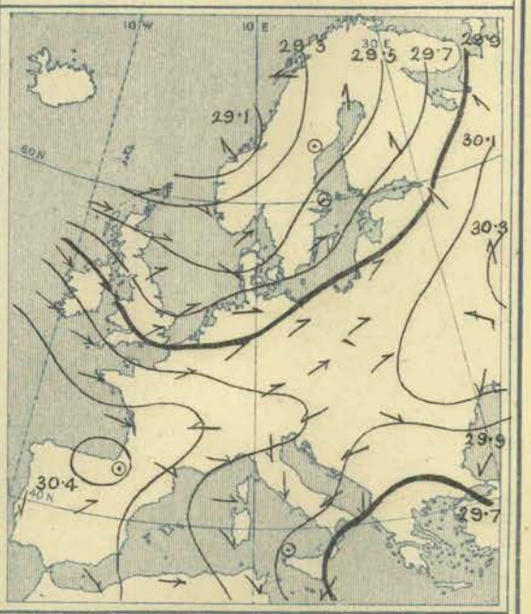
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather dull over the greater part of north-western, northern, and central Europe, with rain in many parts of the United Kingdom, and with snow at some of the Baltic and German stations. Fine and bright in most of the southern countries, but dull in Algeria. Some improvement taking place later in the west and north of our Islands, but very little change reported elsewhere. Heavy rain falling during day over Denmark and the Netherlands.

Temperature highest, (1) 53° at Algiers and Malta, 50° at Brindisi, and 49° at Barcelona and La Calle; (2) 52° at Valencia Island, 50° at Leith and Parsonstown, and 49° at Roche's Point; above 45° in nearly all parts of the United Kingdom. Lowest, −35° Fahr. at Moscow, −33° at Archangel, −13° at Kharkov, −11° at Helsingfors, and −6° at Kiev; below the freezing point over Sweden, the Baltic, eastern Germany, and Austria. Fall taking place later in the western and northern parts of the United Kingdom, but thermometer remaining high over England. Daily maxima exceeding 58° in Algeria, Spain, and the south of Italy, the highest reading of all being 66° at Biskra.

Wind moderate to strong from the South-Westward or Westward over the United Kingdom, and light or moderate from the same quarters over Scandinavia, Denmark, and Germany. Light from the Southward or South-Eastward over northern Russia, and from the Westward in the south of that country. Strong from North or North-East in Italy, and from the North-Westward in Algeria; light from the Eastward (South-East to North-East) over Spain. Subsequently veering to the North-Westward at several of our own western stations, and blowing very strongly in the north of Ireland. No important change occurring on Continent.

Barometer highest, 30·4 ins. and upwards in an anticyclone lying over Spain and the west of France; 30·3 ins. and upwards in another system lying over central Russia. Lowest, 29·2 ins. and less in a depression lying off the north-west of Norway; 29·3 ins. and less in another system lying to the northward of Scotland; 29·6 ins. and less in a third disturbance lying over the south of Italy. Depression off north of Scotland subsequently travelling away in a north-easterly direction, and barometer rising on all our western coasts. Secondary disturbances forming over England and the North Sea.

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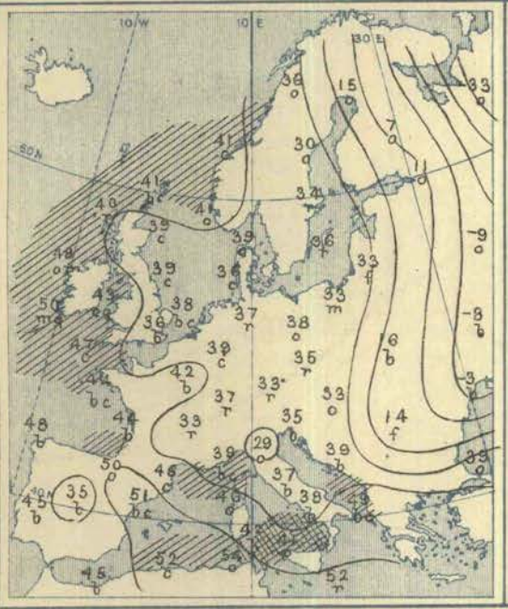
III.—SUMMARY OF WEATHER OVER EUROPE.

Thursday, 28th January.

Temperature and Weather.

8 a.m.

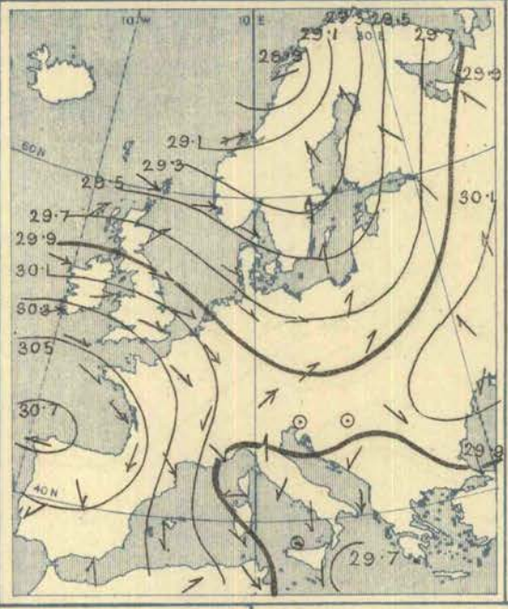


Weather fair or fine over the greater part of western and southern Europe, but dull and rainy in the extreme north-west of our Islands. Cloudy or overcast over all the northern and central countries, with rain in many parts of Sweden, Denmark, and Germany, as well as in the east of France, and with snow at Turin. Dull weather setting in later in many parts of the United Kingdom, with rain in most districts, but amounts not large. Heavy snow falling in Finland.

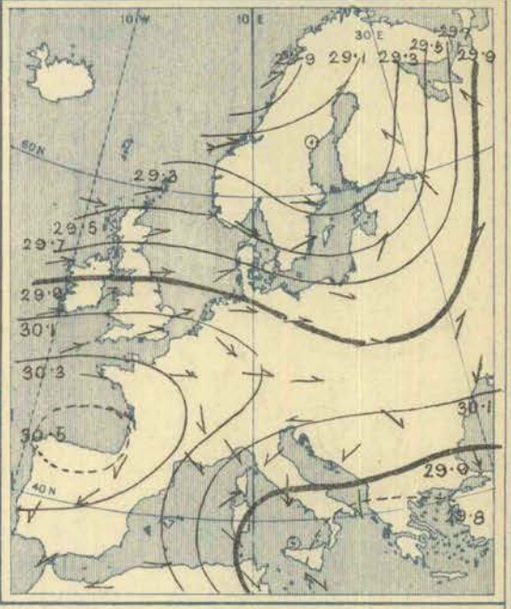
Temperature highest, (1) 54° at La Calle, 52° at Algiers and Malta, and 51° at Barcelona; (2) 50° at Valencia Island, 48° at Belmullet, and 47° at Scilly. Lowest, −33° Fahr. at Archangel, −20° at Kharkov, −8° at Kiev and Odessa, and −3° at Nicolaieff; considerably below the freezing point over Austria, and very little above it over some of the central parts of France and Spain; below 40° over the eastern parts of Great Britain. Considerable rise taking place over Great Britain later; thermometer reaching 50° at some stations. Exceeding 60° in Spain and Algeria, the highest readings of all being 66° at Biskra and 64° at San Fernando.

Barometer and Wind.

8 a.m.



6 p.m.



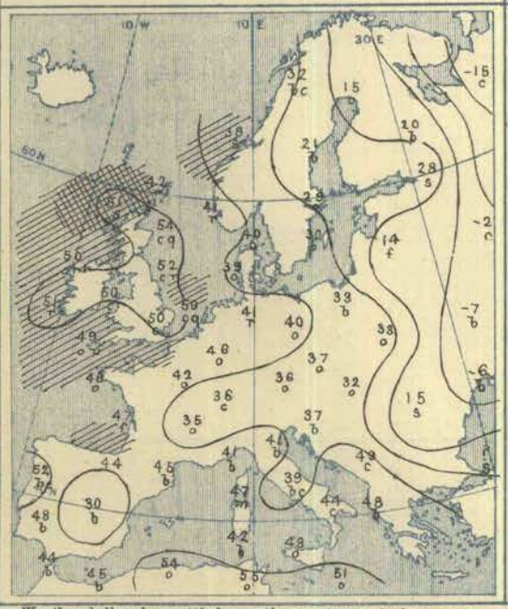
Wind moderate to strong from the Westward over the greater part of the United Kingdom, but South-Westerly on our extreme north-western coasts. Moderate from the North-Westward over Denmark, the Netherlands, and France; Northerly or North-Easterly over Spain and Italy. Light or moderate from the South-Westward over Germany, and from the Southward or South-Eastward over Sweden and Russia, but variable in Austria. Some increase of wind taking place over our Islands later, with moderate gales on exposed parts of our coasts.

Barometer highest, 30·5 ins. to 30·7 ins. in an anticyclone lying over Spain and the Bay of Biscay; 30·2 ins. and upwards in another system lying over Russia. Lowest, 28·9 ins. and less in a depression lying off the north-west of Norway (gradients rather steep over north-western Europe generally); 29·7 ins. and less in a shallow disturbance lying to the southward of Italy. Secondary depression skirting the north of Scotland during day, and barometer falling in many parts of the United Kingdom.

Friday, 29th January.

Temperature and Weather.

8 a.m.

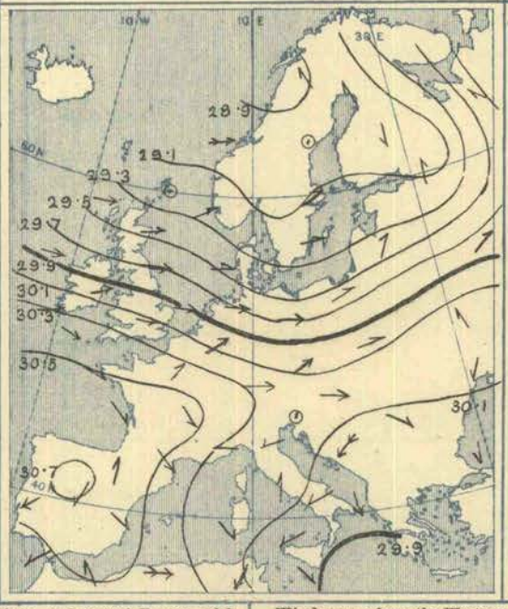


Weather dull and unsettled over the greater part of western, northern, and central Europe, with rain in Germany and the north of Scotland, passing showers in other localities, and snow at Christiansund and St. Petersburg, as well as at Hermanstadt and Constantinople. Fine and bright in most of the southern countries, but dull in Algeria. No important change occurring during day.

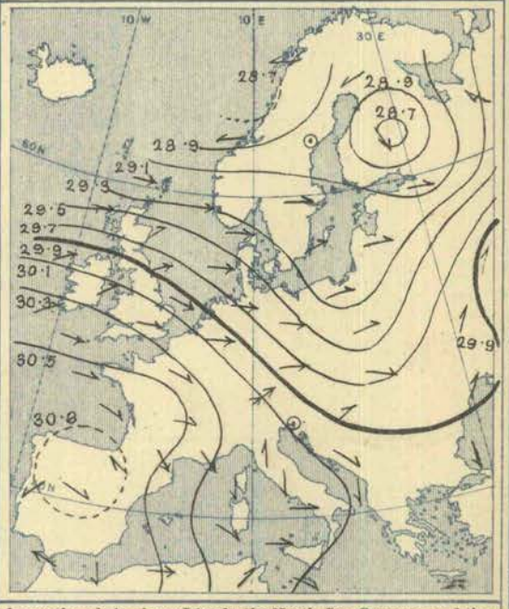
Temperature highest, (1) 55° at La Calle, 54° at Algiers, and 52° at Oporto; (2) 54° at Aberdeen, 52° at Leith, Shields, and York, 51° at several of our western and northern stations, and between 45° and 50° over the United Kingdom generally. Lowest, −17° Fahr. at Kharkov, −15° at Archangel, −9° at Odessa, −7° at Kiev, and −6° at Nicolaieff, and considerably below the freezing point over Sweden and Finland, as well as in Austria; slightly below it over central Spain. Rising during day to between 50° and 55° in most parts of our Islands, and reaching 58° at Aberdeen. Exceeding 60° at several of the Spanish and Mediterranean stations, the highest readings of all being 68° at Biskra and 64° at San Fernando and Oporto.

Barometer and Wind.

8 a.m.



6 p.m.



Wind strong from the Westward over the whole of our Islands, the North Sea, Germany, and the Netherlands, with gales at some of our north-western stations. Moderate from the South-Westward over the Baltic, and light from the South-Eastward or Eastward over the northern parts of Russia and Scandinavia. North-Westerly over Algeria and the southern parts of France, North-Easterly over Spain, variable in Italy. Wind moderating in force later over the southern parts of our Islands, but increasing to a gale in the north of Scotland. No important change taking place on Continent.

Barometer highest, 30·6 ins. to 30·7 ins. over Spain and the south-west of France, 30·2 ins. and upwards over the south of Russia. Lowest, 28·9 ins. and less in a depression lying off the north-west of Norway; secondary disturbances lying over various parts of Finland and Scandinavia; gradients steep over our Islands, the North Sea, Germany, the Baltic, and northern Russia. Rise taking place during day in most parts of western Europe, and gradients over our Islands becoming somewhat less steep. Deep secondary depression with readings below 28·7 ins. forming over Finland, and gradients increasing over central and northern Russia.

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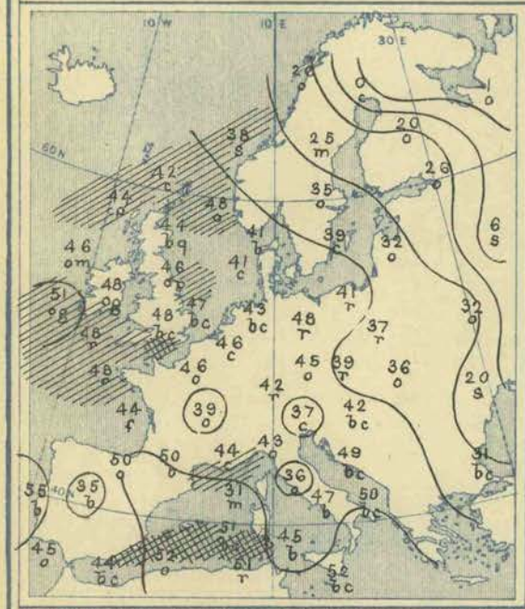
III.—SUMMARY OF WEATHER OVER EUROPE.

Saturday, 30th January.

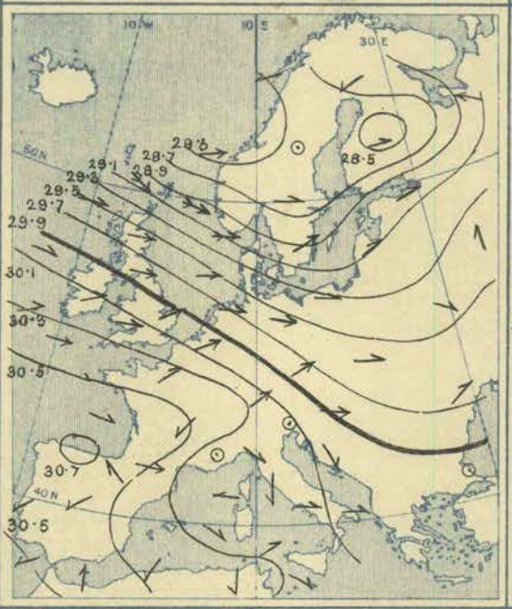
Temperature and Weather.

8 a.m.

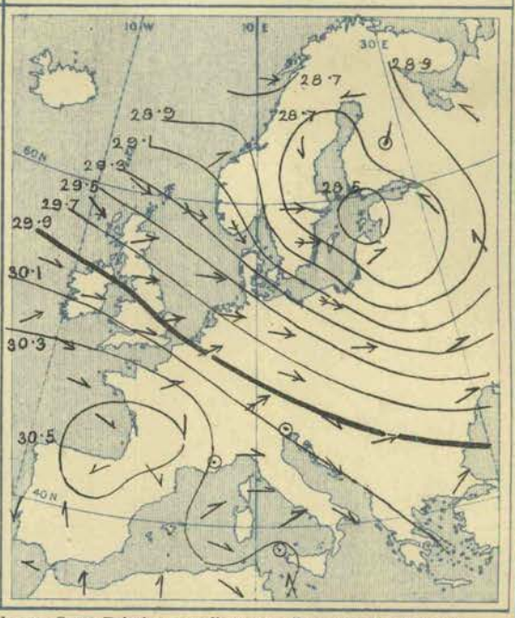


Barometer and Wind.

8 a.m.



6 p.m.



Weather fine in the east of Scotland and the south-east of England, as well as over Denmark and the greater part of southern Europe. Dull elsewhere, with rain in the south-west of England, as well as over Poland and north Germany, and snow over the central and southern parts of Russia. Rain falling later in many parts of the United Kingdom and snow over the Gulf of Finland.

Temperature highest, (1) 55° at Lisbon, 54° at Oporto, 52° at Algiers and Malta, and 51° at Sanguinaire, Cagliari, and La Calle; (2) 51° at Valencia Island and 50° at York and Roche's Point; above 45° in all but the extreme northern and north-western parts of the United Kingdom. Rising during day to between 50° and 55° at many of the English stations, and exceeding the latter point in several parts of France. Rising to 60° or more over Spain, Algeria, and the south of France, the highest European readings of all being 70° at Barcelona and 68° at Oporto.

Wind strong from the Westward over Great Britain, as well as over Denmark, the Baltic, the south of Scandinavia, and the greater part of central Europe; moderate from the same quarter over Ireland and France. Light from the South-Westward or Southward over the central and southern parts of Russia; Easterly over the northern parts of Russia and Scandinavia. Variable in Italy, North-Easterly in Spain, Easterly or South-Easterly in Algeria. Subsequently increasing to a gale from the Westward in Germany; backing to the South-Westward at several of the Irish stations.

Barometer highest, 30·6 ins. and upwards in an anticyclone lying over Spain and the south-west of France. Lowest, 28·5 ins. and less in a depression lying over the west of Norway, 28·6 ins. and less in a secondary disturbance lying near Kuopio; gradients steep over the whole of the North Sea, Denmark, Germany, and the Baltic. Depression over Norway filling up slowly during day; secondary disturbance over Finland moving slowly southward.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇛ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of the week two high-pressure systems were in existence—one over northern and central Russia, and the other to the south-westward of our Islands, a large depression being shown off the west of Norway. As the depression moved eastwards the northern anticyclone gave way, while the high-pressure system in the south-west spread temporarily over the United Kingdom. Fresh disturbances soon appeared, however, in the far north, and for the remainder of the week the weather over northern and north-western Europe was influenced by a series of large cyclonic systems of considerable depth, which travelled in an easterly or east-south-easterly direction from the Atlantic to Scandinavia and northern Russia. Strong Westerly winds were, therefore, experienced in all the more northern and central parts of Europe, with gales in some places, and with mild, squally, showery weather, the amount of rainfall being large at some of the Scotch stations. Between the 25th and 27th a depression of considerable importance was observed over the Mediterranean, so that strong winds from between North-East and North-West were experienced over southern Europe, while heavy rain fell in Algeria and southern Italy. This disturbance eventually travelled away over Asia Minor, and at the close of the week anticyclonic conditions were setting in over the southern countries.

BRIGHT SUNSHINE Values for the Week in addition to those found on page 20.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	9·8	?	17	?	EASTBOURNE	17·2	?	28	?
OSWALDKIRK (Yorkshire)	6·8	?	11	?	TENBY	16·2*	?	27*	?
WORKSOP	9·6	− 0·4	16	0	NEWQUAY	15·3	?	25	?
THURCASTON (Leicestershire)	16·2	+ 7·2	27	+12	TORQUAY	25·0*	?	40*	?
MARGATE	15·9	?	26	?	ARLEY COTTAGE (County Cavan)	7·4	?	13	?
BRIGHTON	11·7	?	19	?	GUERNSEY				

* The values at Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.
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VOL. IX. No. 5.] *Third Series.* WEEK ENDING SATURDAY, 6TH FEBRUARY, 1892. [*Price 6d.* [*Annual subscription, post paid, £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years' observations (1871–90). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the ten years 1881-90. RAINFALL.—*The Mean amounts* are those for the corresponding periods in the twenty-five years 1856-90, but the *Mean numbers of Rainy Days* are those for the ten years 1881-90, only. BRIGHT SUNSHINE.—*The Mean values* employed are those for the corresponding periods in the ten years 1881-90.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 26.)	Observed during the Week. Highest.	Observed during the Week. Lowest.	Averages of Daily Maxima.	Averages of Daily Minima.	Averages of Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	For the Week. Difference from Mean.	For the Week. Below 42°	For the Week. Difference from Mean.	From January 3rd, 1892. Above 42°	From January 3rd, 1892. Difference from Mean.	From January 3rd, 1892. Below 42°	From January 3rd, 1892. Difference from Mean.
		°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	49	14	41·9	31·8	36·9	2 below.	0	− 6	36	+ 2	23	−12	230	+ 69
	1. SCOTLAND, EAST	51	18	41·8	30·9	36·3	1 below.	0	− 8	40	+ 3	28	−14	254	+ 62
	2. ENGLAND, N.E.	49	27	43·1	34·3	38·7	0 (average)	3	− 5	28	− 6	29	− 7	224	+ 45
	3. ENGLAND, EAST	53	27	45·3	35·2	40·2	2 above.	9	0	26	−12	25	−15	261	+ 56
	4. MIDLAND COUNTIES	52	26	46·0	35·6	40·8	2 above.	11	+ 1	25	−13	40	− 9	255	+ 53
	5. ENGLAND, SOUTH	54	29	46·7	37·5	42·1	2 above.	20	+ 8	13	−15	49	− 9	184	+ 31
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	49	26	44·5	35·3	40·0	0 (average)	7	− 2	26	− 1	35	−15	185	+ 47
	7. ENGLAND, N.W.	51	23	44·0	33·6	40·3	1 above.	6	− 2	20	− 8	26	−19	183	+ 39
	8. ENGLAND, S.W.	52	29	47·4	39·0	43·2	2 above.	21	+ 5	8	−13	56	−23	151	+ 43
	9. IRELAND, NORTH	54	28	45·7	35·6	40·7	0 (average)	10	− 4	25	+ 1	36	−34	167	+ 44
	10. IRELAND, SOUTH	55	30	48·8	39·1	44·0	1 above.	26	+ 5	8	−10	70	−35	142	+ 48
	— CHANNEL ISLANDS	51	38	49·6	42·4	46·0	2 above.	28	+ 6	0	− 7	93	−16	55	+ 9

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 26.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1892. Number of Rainy Days.	Difference from Mean.	Total Fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1892. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of In.	10ths of In.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	7	17	5 more.	30	+ 4	7·8*	+ 1·6	10	+ 5	17	+ 7	32	+ 1	12	0
	1. SCOTLAND, EAST	5	4	2 less.	20	+ 1	2·6	− 0·6	19	+12	32	+20	53	− 6	20	− 3
	2. ENGLAND, N.E.	3	1	3 less.	16	− 2	1·4	− 0·8	22	+10	36	+16	54	+13	19	+ 4
	3. ENGLAND, EAST	3	1	3 less.	18	0	1·1	− 1·1	23	+ 8	36	+13	65	+ 6	22	+ 1
	4. MIDLAND COUNTIES	4	2	3 less.	20	+ 2	1·7	− 1·0	18	+ 6	28	+ 8	62	+13	22	+ 5
	5. ENGLAND, SOUTH	5	4	2 less.	18	0	1·3	− 1·7	15	+ 2	24	+ 3	65	+16	22	+ 5
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	6	16	3 more.	27	+ 4	6·1	− 0·5	19	+ 7	31	+14	54	+15	19	+ 5
	7. ENGLAND, N.W.	5	8	2 more.	24	+ 3	3·9	+ 0·3	17	+ 4	28	+ 9	51	+10	18	+ 3
	8. ENGLAND S.W.	7	9	1 more.	24	+ 3	3·1	− 1·6	17	+ 2	27	+ 5	75	+17	25	+ 5
	9. IRELAND, NORTH	7	10	3 more.	27	+ 4	3·7	− 0·2	14	+ 2	22	+ 5	49	− 1	17	− 1
	10. IRELAND, SOUTH	6	11	2 more.	23	+ 1	3·7	− 1·0	16	+ 1	26	+ 2	61	− 1	21	− 1
	— CHANNEL ISLANDS	7	10	2 more.	29	+ 6	2·9	− 1·0	5	−14	8	−20	52	−29	17	− 9

Bright Sunshine.—For several of the stations there are no "mean" values available, and the "difference from the mean" in some of the districts is consequently that of only a few of the stations.

General Remarks.

Weather during this period varied considerably; in the west and north it was generally squally, with showers of rain, sleet, or snow daily, but over the eastern and south-eastern districts the conditions were quieter and the showers slight and less frequent. A good many intervals of bright sunshine occurred in nearly all parts of the Kingdom, especially in the east and north-east.

Temperature continued above the mean (the excess being 1° or 2°) in most parts of England, as well as in Ireland S. and the Channel Islands, and just equalled it in England N.E., Ireland N. and Scotland W.; in the north and east of Scotland, however, it was a little below the normal. The highest of the maxima, which were recorded either at the beginning or end of the week, ranged from 55° in Ireland S. and 54° in England S. and Ireland N. to 49° in Scotland N. and W. and England N.E. The lowest of the minima were registered either on the 3rd or 4th, when the thermometer fell to 14° in Scotland N., 18° in Scotland E., to between 23° and 30° in most other districts, and to 38° in the Channel Islands.

Rainfall exceeded the mean in all the "Grazing districts," as well as in Scotland N., but showed a deficit elsewhere.

Bright Sunshine was very deficient in the Channel Islands, but in all other districts it was fairly abundant, and in most instances considerably exceeded the mean. The percentage of the possible amount of duration ranged from 33 to 36 over the eastern parts of Great Britain, and from 31 in Scotland W., to 17 in Scotland N., and to only 8 in the Channel Islands.

Barometer and Wind.—The barometer continued highest in the south or south-west, and the gradients were again chiefly for Westerly winds. Some large and rather deep depressions travelled eastwards or south-eastwards off our northern coasts and one or two secondary systems moved more directly over us. South-Westerly to Westerly or North-Westerly winds were consequently experienced throughout our Islands, and were at times strong in force in all districts; in the west and north-west they occasionally attained the force of a gale.

* This value has been altered owing to the receipt of further information.

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II.—DATA from which the SUMMARY on page 25 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head ℌ	43	26	39·9	32·9	36·4	− 2·6	0	39	7	1·02	+0·20	*	*	*	*
	Stornoway	45	27	43·0	32·0	37·5	− 1·8	3	36	7	1·02	−0·07	15·6	+ 4·8	27	+ 7
	Wick	?	24	?	29·4	?	?	?	?	6	1·03	+0·55	*	*	*	*
	Lairg ℌ	49	14	39·9	28·2	34·1	− 2·4	0	55	7	1·72	+0·95	*	*	*	*
	Glencarron ℌ	48	26	41·1	31·2	36·2	− 1·3	0	41	7	2·72	+0·72	*	*	*	*
	Fort Augustus ℌ	47	24	43·0	31·6	37·3	− 1·5	3	37	7	1·77	+0·77	4·7	?	8	?
	Fort William ℌ	49	29	44·7	34·8	39·8	+ 0·4	8	27	6	2·50	+0·33	8·7	?	15	?
1. SCOTLAND, E.	Nairn	51	27	42·4	30·9	36·7	− 1·5	1	39	5	0·55	+0·15	*	*	*	*
	Aberdeen	48	25	41·4	32·7	37·1	− 1·1	0	34	5	0·18	−0·36	26·7	+11·9	45	+20
	Braemar ℌ	45	18	38·0	28·3	33·1	− 1·9	0	62	6	0·70	−0·04	8·2†	?†	14†	?†
	Ochtertyre ℌ	47	26	42·0	30·0	36·0	− 0·9	0	42	6	0·56	−0·52	*	*	*	*
	Leith	49	27	44·3	32·6	38·5	− 1·3	6	35	5	0·24	−0·16	*	*	*	*
	Marchmont ℌ	46	25	41·6	30·6	36·1	− 1·1	0	41	3	0·30	−0·30	23·8	?	40	?
2. ENGLAND, N.E.	Alnwick Castle	46	27	41·4	34·1	37·8	− 0·2	0	29	2	0·14	−0·36	*	*	*	*
	Durham	47	27	43·2	34·0	38·6	+ 0·9	3	29	2	0·02	−0·40	22·4	+ 9·8	37	+17
	Shields	48	28	44·0	32·4	38·2	− 0·9	6	35	4	0·10	−0·30	*	*	*	*
	Scarborough ℳ	47	28	42·6	35·0	38·8	− 0·4	2	25	5	0·27	−0·17	*	*	*	*
	York	49	28	45·0	34·1	39·6	+ 0·9	8	30	3	0·13	−0·30	19·6	+ 9·5	32	+17
	Spurn Head	46	32	42·4	35·9	39·2	+ 0·4	1	22	4	0·12	−0·22	*	*	*	*
3. ENGLAND, E.	Hillington ℳ	48	27	44·3	35·0	39·7	+ 1·5	6	26	3	0·11	−0·33	24·1	+11·1	39	+18
	Yarmouth	47	30	43·3	34·9	39·1	+ 0·6	4	26	3	0·05	−0·40	*	*	*	*
	Geldeston	50	29	45·3	35·0	40·2	+ 1·2	9	27	3	0·08	−0·30	21·4	+ 6·4	34	+11
	Cambridge	53	27	47·3	34·9	41·1	+ 2·6	15	29	3	0·10	−0·28	21·1	+ 7·3	33	+12
	Rothamsted	51	29	46·2	36·2	41·2	+ 3·3	12	23	4	0·26	−0·31	23·2	?	37	?
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	49	28	44·9	35·1	40·0	+ 1·3	8	26	3	0·30	−0·10	*	*	*	*
	Loughborough	52	29	46·4	35·6	41·0	+ 2·3	12	25	4	0·18	−0·30	*	*	*	*
	Stamford (Ketton Hall)	51	26	46·7	34·3	40·5	+ 1·7	13	30	3	0·10	−0·30	*	*	*	*
	Cheadle ℳ	48	29	44·0	34·2	39·1	+ 1·9	6	29	4	0·32	−0·26	*	*	*	*
	Churchstoke ℳ	51	27	46·3	35·6	41·0	+ 2·4	12	26	5	0·24	−0·43	18·1	+ 5·1	29	+ 9
	Hereford ℳ	52	31	47·1	37·9	42·5	+ 2·7	21	11	3	0·18	−0·39	*	*	*	*
	Cirencester	49	28	46·1	35·0	40·6	+ 2·2	11	28	6	0·18	−0·51	16·6	+ 2·9	26	+ 4
	Oxford	51	31	46·4	37·1	41·8	+ 2·1	12	21	5	0·25	−0·25	18·1	+ 5·1	29	+10
5. ENGLAND, S.	London	50	30	47·0	37·3	42·2	+ 2·4	21	13	4	0·32	−0·15	10·7†	+ 2·7†	17†	+ 5†
	North Foreland	49	30	45·1	37·1	41·1	+ 1·1	9	19	4	0·18	?	*	*	*	*
	Strathfield Turgiss ℳ	50	30	46·6	37·1	41·9	+ 2·9	13	21	6	0·48	−0·04	*	*	*	*
	Dungeness	51	29	46·4	36·9	41·7	+ 1·7	12	21	3	0·14	−0·42	*	*	*	*
	Hastings (St. Leonards)	50	31	45·6	37·1	41·4	+ 1·2	10	20	6	0·23	−0·36	17·7	+ 1·1	28	+ 3
	Southampton	54	32	48·8	37·7	43·3	+ 2·7	27	12	5	0·54	−0·16	14·2	+ 0·2	22	+ 1
	Hurst Castle	50	34	47·6	39·0	43·3	+ 2·3	22	8	5	0·23	−0·44	*	*	*	*
	Stowell ℳ	51	32	46·4	37·4	41·9	+ 2·9	12	19	5	0·93	?	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	49	31	45·5	34·8	40·2	0·0	10	28	7	3·19	+1·22	*	*	*	*
	Glasgow	47	30	42·7	34·4	38·6	− 0·4	2	27	6	0·95	+0·04	14·7	+ 5·6	25	+12
	Ardrossan	49	33	45·1	36·9	41·0	+ 0·6	9	20	6	0·86	−0·04	*	*	*	*
	Glenlee ℌ	48	26	43·8	33·5	38·7	+ 0·9	5	31	6	2·07	+0·55	*	*	*	*
	Douglas (Isle of Man)	48	33	45·4	37·1	41·3	+ 0·5	10	20	6	0·82	−0·17	23·2	+10·2	37	+16
7. ENGLAND, N.W.	Newton Reigny	46	23	41·7	31·5	36·6	− 0·6	0	38	6	1·04	+0·24	16·3	+ 4·5	27	+ 8
	Stonyhurst	46	30	42·6	35·6	39·1	+ 0·4	2	23	5	1·34	+0·45	18·4	+ 6·6	30	+12
	Blackpool ℳ	46	31	42·7	35·8	39·3	+ 0·3	2	23	4	0·93	+0·31	17·8	+ 6·1	29	+11
	Manchester	47	34	43·5	37·9	40·7	+ 2·2	4	15	5	0·84	+0·25	*	*	*	*
	Liverpool Obsy. (Bidston)	50	32	45·1	37·0	41·1	+ 1·1	9	20	5	0·55	+0·10	*	*	*	*
	Llandudno ℳ	51	34	46·6	38·9	42·8	+ 1·0	19	9	6	0·63	+0·05	15·2	+ 3·9	25	+ 4
	Holyhead	49	34	45·9	39·6	42·8	+ 0·6	16	7	6	0·49	−0·21	*	*	*	*
8. ENGLAND, S.W.	Llandovery	51	29	46·7	35·9	41·3	+ 0·1	13	25	7	1·21	+0·11	*	*	*	*
	Pembroke	49	35	46·4	41·4	43·9	+ 1·4	16	2	7	0·55	−0·24	18·0	+ 2·6	29	+ 5
	Arlington (N. Devon)	48	31	45·1	37·3	41·2	+ 1·4	9	19	7	1·34	+0·33	*	*	*	*
	Cullompton ℳ	52	31	48·1	37·9	43·0	+ 2·7	24	11	6	0·85	+0·11	18·0	+ 5·5	28	+10
	Falmouth	52	34	48·7	40·3	44·5	+ 1·1	25	5	7	1·21	+0·05	15·3	0·0	24	+ 1
	Plymouth	52	33	49·0	40·5	44·8	+ 2·3	26	4	7	0·59	−0·26	16·0	+ 1·5	25	+ 3
	Prawle Point	50	34	48·0	39·6	43·8	+ 1·6	23	7	7	0·77	+0·17	*	*	*	*
9. IRELAND, N.	Malin Head	48	32	44·1	36·6	40·4	− 1·4	6	21	6	0·70	?	*	*	*	*
	Londonderry	49	32	45·6	35·2	40·4	− 1·6	10	26	7	1·50	+0·69	*	*	*	*
	Mullaghmore	50	34	46·1	37·4	41·8	− 0·7	11	19	7	1·22	+0·40	*	*	*	*
	Belmullet	50	33	47·0	38·7	42·9	+ 0·5	20	9	7	1·62	?	*	*	*	*
	Markree Castle	49	31	46·5	35·0	40·8	+ 0·6	13	28	7	1·04	+0·31	13·9	+ 0·9	22	+ 2
	Brookeborough	49	28	45·4	32·2	38·8	− 0·4	10	37	7	1·20	+0·32	*	*	*	*
	Armagh	49	31	45·4	33·7	39·6	− 0·1	10	32	6	0·61	+0·01	16·7	+ 3·6	27	+ 7
	Donaghadee	50	30	44·6	34·9	39·8	− 1·2	7	27	7	0·46	− ·17	*	*	*	*
	Edgeworthstown	54	30	47·0	36·6	41·8	+ 2·3	14	22	7	0·95	+0·26	*	*	*	*
10. IRELAND, S.	Dublin	52	33	47·8	37·1	42·5	+ 0·3	24	14	5	0·41	−0·11	22·0	+ 7·0	35	+11
	Parsonstown	51	32	47·0	36·6	41·8	+ 0·9	14	22	6	1·07	+0·47	14·8	+ 0·8	24	+ 1
	Kilkenny	53	30	47·7	37·0	42·4	+ 0·5	24	14	7	1·09	+0·34	*	*	*	*
	Waterford	53	31	48·4	38·6	43·5	+ 0·4	25	10	6	0·72	−0·29	*	*	*	*
	Roche's Point	55	34	50·0	40·6	45·3	+ 1·5	29	4	4	1·11	−0·08	*	*	*	*
	Valencia	53	38	50·4	42·6	46·5	+ 1·5	32	0	7	1·23	−0·13	11·3	− 4·5	18	− 7
	Killarney	54	34	50·3	39·2	44·4	+ 0·8	31	8	7	1·19	?	*	*	*	*
	Foynes	52	36	48·3	40·8	44·8	+ 1·8	25	3	7	1·37	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	51	38	49·6	43·3	46·5	+ 0·6	32	0	7	0·81	+0·02	*	*	*	*
	Jersey	51	38	49·6	41·4	45·5	+ 2·9	27	2	7	1·09	+0·44	5·3	−13·7	8	− 20

Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked ℌ with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

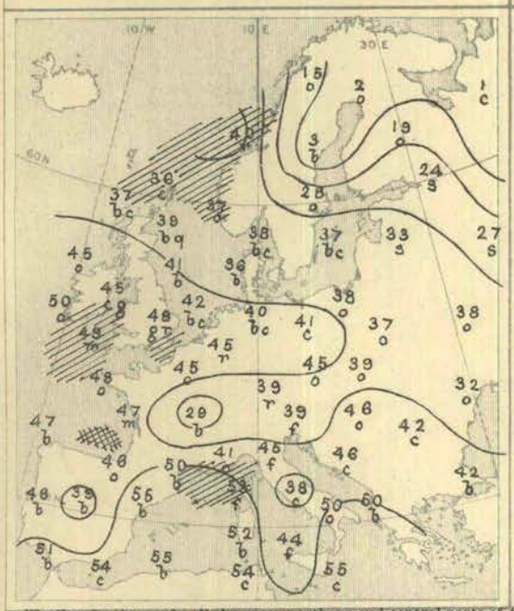
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory and the Meteorological Office, Victoria Street. For additional Reports of Sunshine see last page.

III.—SUMMARY OF WEATHER OVER EUROPE.

Sunday, 31st January.

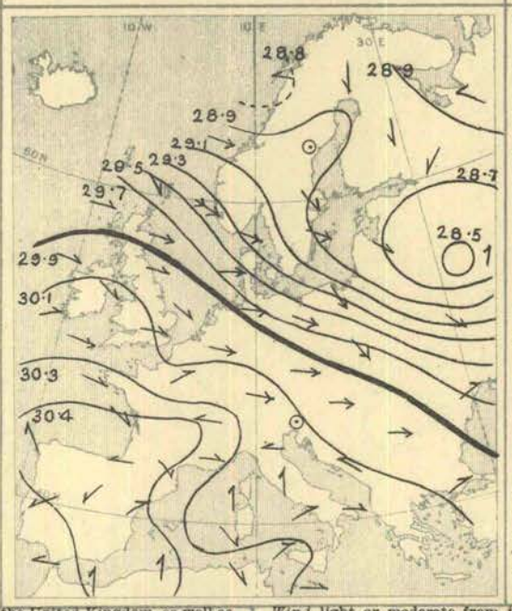
Temperature and Weather.

8 a.m.

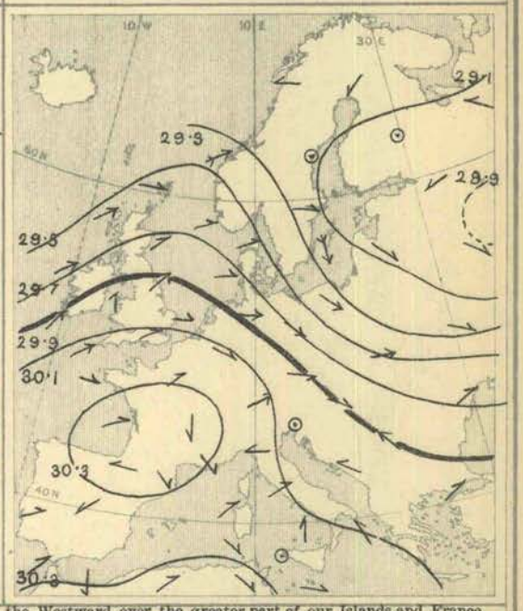


Barometer and Wind.

8 a.m.



6 p.m.



Weather fine in nearly all the more northern and central parts of the United Kingdom, as well as over Sweden, Denmark, Spain, Algeria, and the south of France; dull elsewhere, with mist and rain in the south of England, rain in Belgium and north of France, west and south Germany, and snow over northern and central Russia. Improvement taking place later over our southern counties, but thick wet mist and fog prevailing in the Channel, and dull unsettled weather setting in over the western and northern parts of the United Kingdom, with rain at night. Some snow at Russian stations.

Temperature highest, 56° at Oporto, 55° at Barcelona, Algiers, and Malta, 54° at Nemours and La Calle, and 53° at Sanguinaire; above 50° at most of the Mediterranean stations, and very little below that point over the south of our Islands and the west of France. Lowest, 1° Fahr. at Archangel, 2° at Haparanda, 3° at Hernösand, 15° at Bodö and Uleaborg, and 19° at Knoplo; below the freezing point over nearly the whole of Sweden and Russia, and below 40° in the north of our Islands. Rising during day to between 50° and 54° in the south-east of England, to 63° at Lisbon, to between 60° and 68° in the south of France, the south of Italy, and in Algeria. Rise taking place over Scotland at night.

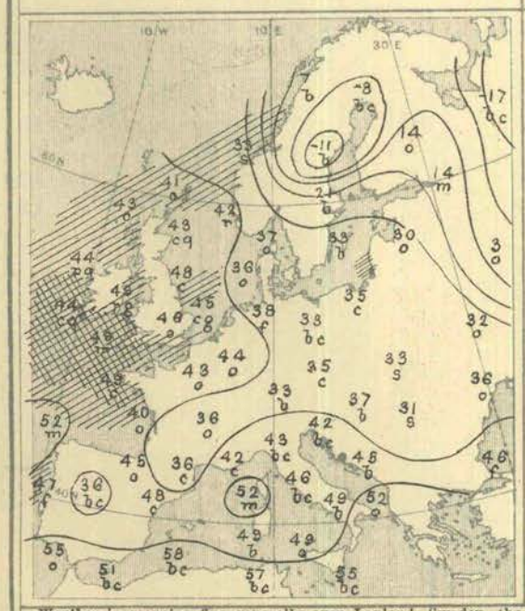
Wind light or moderate from the Westward over the greater part of our Islands and France. Strong from the same quarter or from North-West over Norway, Denmark, the Baltic, and the whole of southern and eastern Europe. Light from between East and North over the northern parts of Russia and Scandinavia. Somewhat variable in Italy, but chiefly South-Westerly; Southerly in Algeria; Easterly (South-East to North-East) over the Peninsula. Subsequently backing to the Southward or South-Westward in all the northern and western parts of the United Kingdom, and increasing to a gale in Ireland and the west of Scotland. Easterly breeze setting in over the north of Italy.

Barometer highest, 30·4 ins. and upwards in a large anticyclone embracing a considerable part of France and Spain, and extending Southwards to Algeria. Lowest, 28·6 ins. and less in a well-marked depression lying over central Russia; 28·8 ins. and less in another disturbance lying off the north-west of Norway. A new depression advancing later to our extreme north-west coasts, and barometer falling quickly in all the western and northern parts of the United Kingdom; rising quickly over Scandinavia.

Monday, 1st February.

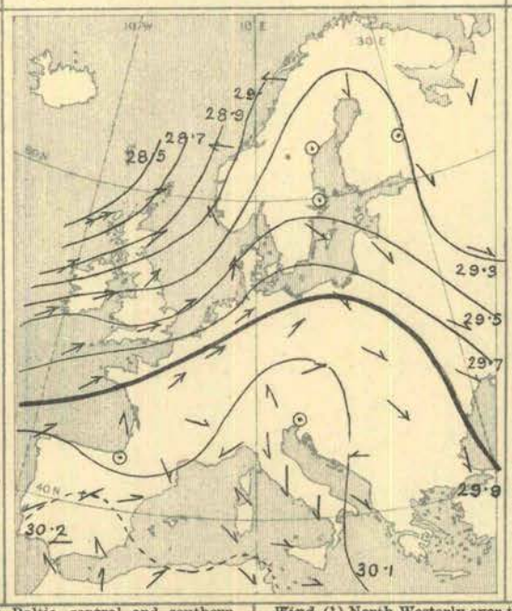
Temperature and Weather.

8 a.m.

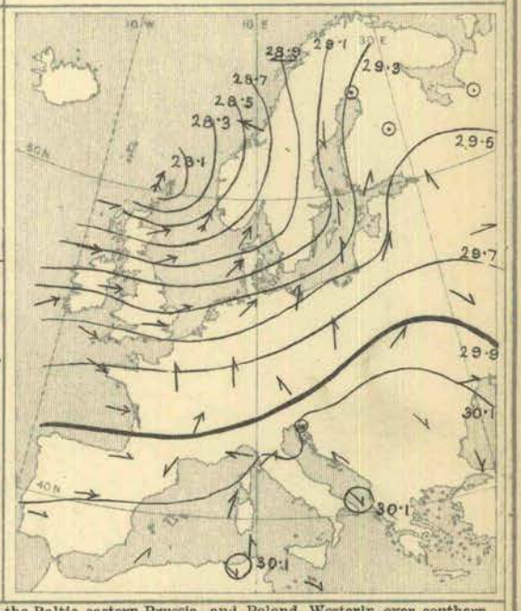


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine generally over Lapland, Sweden, the Baltic, central and southern Europe; dull and somewhat unsettled over Russia; dull, squally, showery, and very unsettled over the British Islands and their neighbourhood. Rain later throughout our Islands, Scandinavia, Denmark, and many parts of France, but not in large quantity; hail and sleet at several of our own stations, lightning at Skudesnaes. Amount of cloud varying greatly during day.

Temperature fallen rapidly over Russia and central Europe, changing rather irregularly over our Islands. Morning readings above average for time of year over north-western Europe, exceeding 55° on southern side of Mediterranean, and exceeding 40° over the greater part of France and the British Islands; above the freezing point over central Europe, but as low as −17° at Archangel, −11° at Hernösand, −8° at Haparanda, +3° at Moscow, 14° at St. Petersburg and Hangö. Rising later to 68° in the north of Algeria, to 60° or more in south of Italy, to 59° in the south of France, and to 50° at Cambridge: exceeding 45° but not touching 50° at our other stations.

Wind, (1) North-Westerly over the Baltic, eastern Prussia, and Poland, Westerly over southern Russia; (2) South-Westerly over the British Islands, the English Channel, and the Netherlands, strong to a gale in force, and more Southerly both over the Bay of Biscay and in Denmark. South-Easterly to Easterly in Norway; (3) light and variable over the central parts of France, eastern Germany, and the Mediterranean; (4) North-Easterly to Easterly over the Spanish Peninsula. Moderate to fresh gales later, from South-West over the Channel and North Sea, from South in the south of Norway, and from South-East at Christiansund.

Barometer highest, 30·2 ins. and more to 30·0 ins. over Algeria, the Mediterranean and the major part of France, south Germany, and Austria. Lowest, about 29·2 ins. over the north-east of Russia, and below 28·6 ins. in a large depression, the centre of which had reached our extreme north-western coasts during the night. Gradients very steep over the north-western half of Ireland. Rising in the north-west of our Islands later, and falling to 28·0 ins. at Sumburgh Head by 6 p.m. as the depression in that region moved eastward, rising fast over northern Russia.

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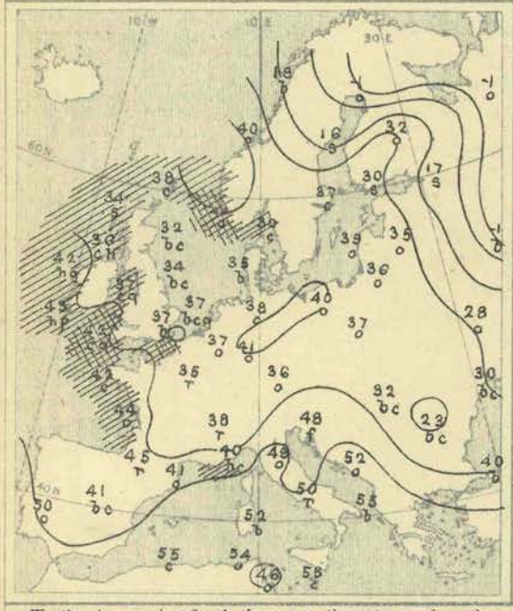
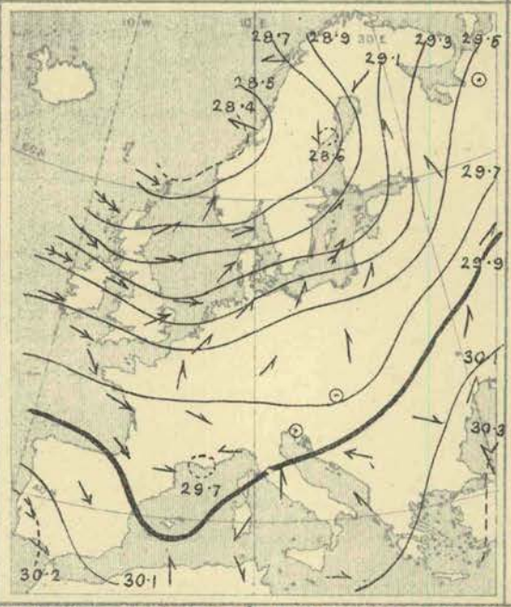
III.—SUMMARY OF WEATHER OVER EUROPE.

Tuesday, 2nd February.

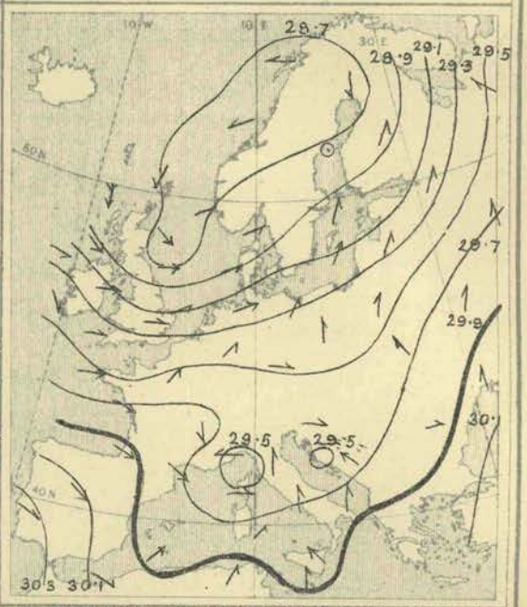
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fine both over south-western and south-eastern Europe, and temporarily so over the eastern parts of Ireland and Great Britain and some parts of France; dull over Russia, changeable and unsettled over northern and north-western Europe generally, with showers on our northern and western coasts and at St. Petersburg, snow over Scandinavia. Snow, hail, or rain showers later in almost all parts of Europe (heaviest in the west of France); thunder and lightning at Liverpool.

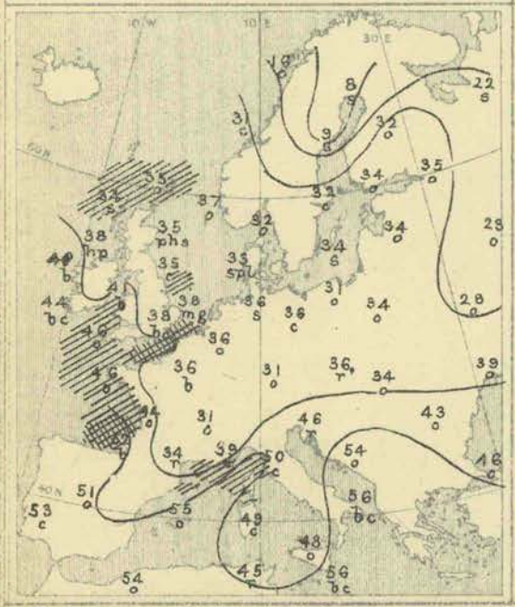
Temperature fallen fast over our Islands and France, and risen fast over Sweden. Morning readings exceeding 50° on the southern shores of the Mediterranean and on the Spanish coasts, and exceeding 40° on the Atlantic coasts of France and the British Isles; much lower elsewhere. Lowest, (1) −7° Fahr. at Archangel, −1° at Moscow and Haparanda, 16° at Hernösand; (2) 23° at Hermanstadt, and 24° to 30° over southern Russia; (3) 31° to 33° over the eastern half of Scotland, 34° to 37° over central England, 34° at Parsonstown, 36° at Paris. Rising later to 60° and more over Algeria and southern Italy, to 56° and more in the extreme south of France, and to 40° and more over the British Islands; falling fast again at night.

Wind strong to a gale from West and North-West in our Islands, and from South-West over the eastern parts of the North Sea; more Southerly and less strong in the Baltic, Easterly in the north of Norway. Fresh North-Westerly over the Bay of Biscay and Spain, moderate Southerly over Italy and the Adriatic, light South-Westerly over Russia. Less strong over the North Sea later, but stronger in Scotland; not much change elsewhere.

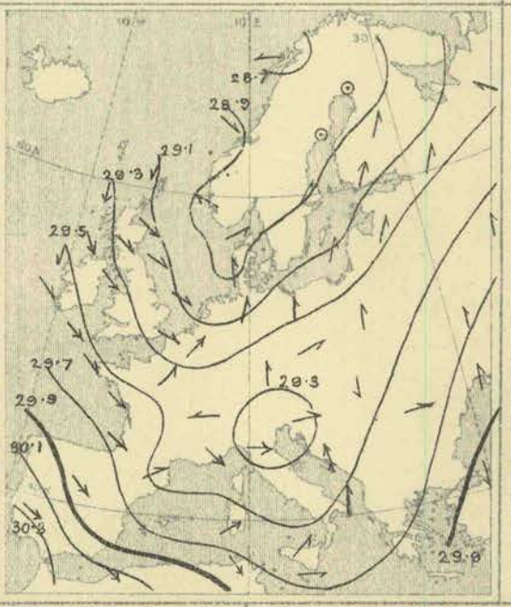
Barometer highest, 30·2 ins. to 29·9 ins. over Spain, and also over the Black Sea and south-eastern Europe. Lowest, 28·4 ins. and less in a large depression off the west of Norway; about 28·6 ins. in a small secondary over the Gulf of Bothnia; and about 29·7 ins. in a small disturbance over the Gulf of Lion. Northern disturbances merging and tending to fill up, that in the south moving eastwards to the Gulf of Genoa, and a new one appearing over the Adriatic.

Wednesday, 3rd February.

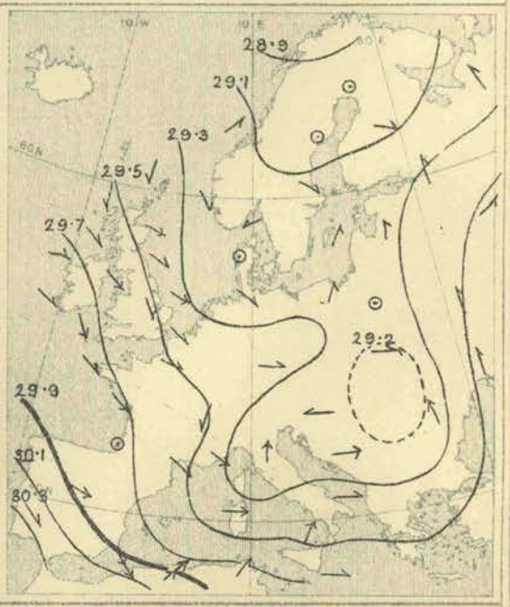
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fair (but not settled) over the greater part of the British Isles and France, but rain showers reported at Perpignan, Jersey, and Prawle Point, hail and snow in the north and east of Scotland, and at Belfort. Sky overcast or cloudy in all other parts of Europe, with rain over Austria, snow in Finland. Snow or cold rain in the north and west of our Islands later, and in several parts of France, but amounts not large, except over the southern departments. Very heavy rain on the southern shores of the Mediterranean, especially at La Calle.

Temperature changing irregularly over our Islands, fallen over central Europe. Morning readings exceeding 50° at several stations on southern side of Mediterranean and over Iberian Peninsula, above 40° on the Atlantic coasts of France, Ireland, and England; lower elsewhere, and lowest of all, (1) 8° to 9° in the north of Sweden, 16° at Bodö, 22° at Archangel, 23° at Moscow, 28° at Kiev; (2) 31° at Munich and Lyons, 32° at Turin, 33° at Belfort; (3) 34° to 36° in the northern parts of Scotland. Rising to between 40° and 50° over our Islands later, but falling fast again at night; frost occurring inland over Scotland and England. Daily maxima varying between 50° and 60° over southern Europe generally, and reaching 60° or more over Algeria.

Wind Northerly to North-Westerly, fresh, over our Islands, North-Westerly, fresh to strong, over the English Channel, the Bay of Biscay, and Spain, Westerly over the Mediterranean, Southerly over the Adriatic, as well as over the Netherlands, Russia, and the Baltic; South-Easterly to Easterly over the extreme north of Russia and in Lapland. Blowing gustily over our Islands later, and becoming more Northerly over England; Westerly gales spreading over Spain and Algeria, and strong Westerly breezes over the Mediterranean generally.

Barometer highest, (1) 30·3 ins. and more to 29·6 ins. over Spain, Algeria, and the south-western half of the Bay of Biscay; (2) 29·9 ins. and more to 29·6 ins. over south-eastern Europe, the Black Sea, and southern parts of Russia. Lowest, (1) 28·7 ins. and less over Finmark; (2) 29·0 ins. and less over the eastern parts of the North Sea; (3) 29·3 ins. and less over the northern parts of Italy. Rising quickly throughout our Islands later, but disturbances over the Mediterranean and Austria becoming complex.

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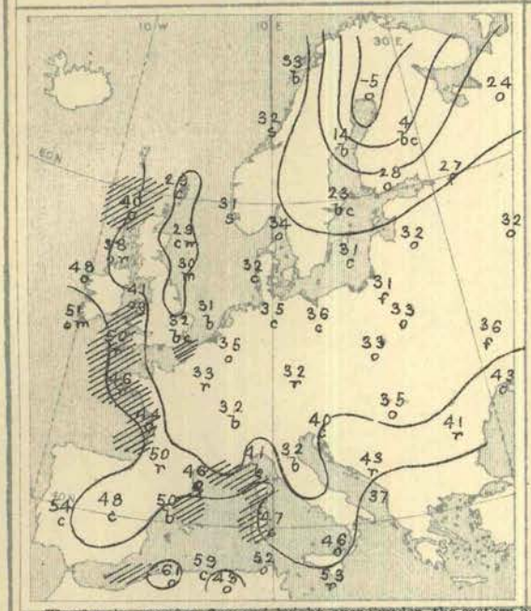
III.—SUMMARY OF WEATHER OVER EUROPE.

Thursday, 4th February.

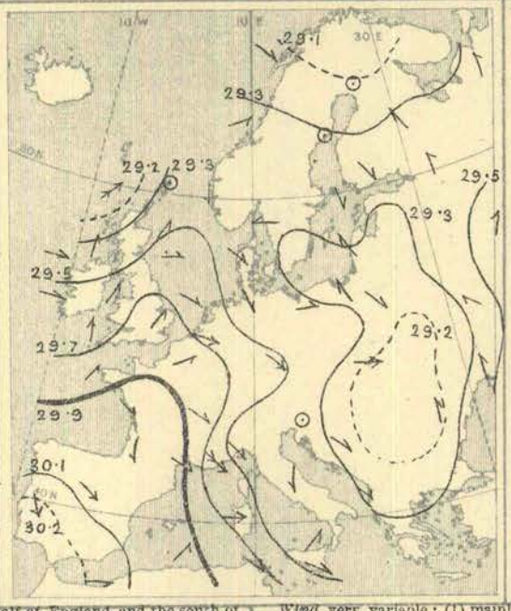
Temperature and Weather.

8 a.m.

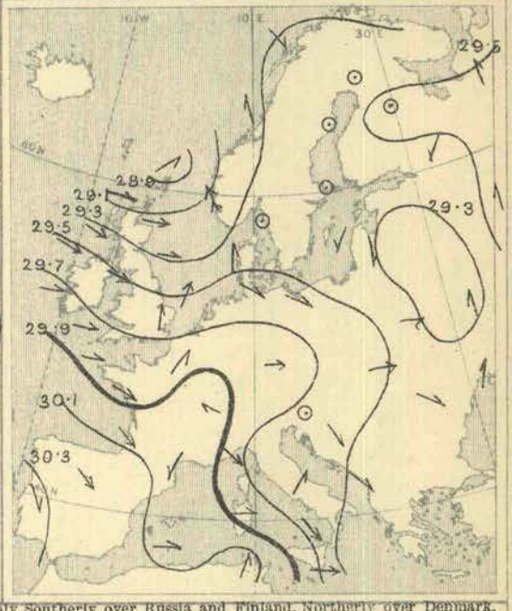


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over Sweden, the eastern half of England, and the south of France, but not settled anywhere. Cloudy or overcast in most places, with rain in several parts of the British Islands, France, south Germany, and Austria, snow in the west of Norway; fog prevalent in north Germany and western Russia. Rain later in almost all parts of our Islands and France, but amounts small, except in some parts of France; snow and hail in north of Scotland; rain at Palermo, and at some Russian stations.

Temperature fallen fast over Italy and the Adriatic, also over the British Isles and northern Europe; risen over central and southern Russia. Morning readings exceeding 60° at Oran, and exceeding 50° at Brindisi, Malta, the Algerian and most Spanish stations generally, and at Valencia Island and Scilly. Lowest, (1) −5° Fahr. at Haparanda, +4° at Knopio, 14° at Hernösand, 27° at St. Petersburg; (2) 29° to 32° in the north and east of Scotland. 32° at Belfort and at Florence, 37° at Rome and Marseilles, 39° at Leghorn. Rising later to 40° and more in the north of Scotland, to between 50° and 53° on our south-western and southern coasts, and in the west and south of France, and to upwards of 60° over the south of Spain and in Algeria.

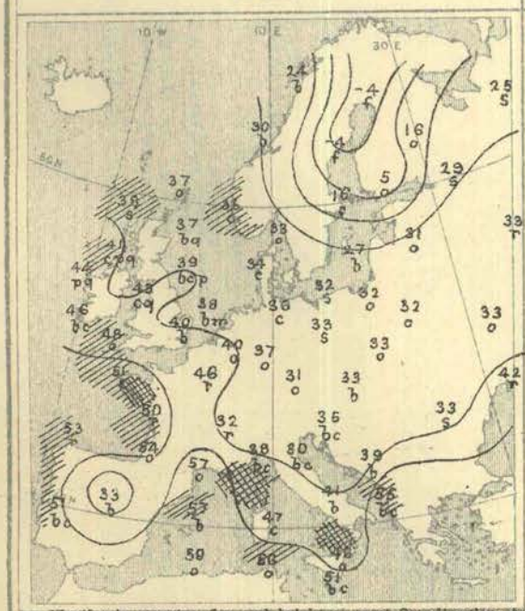
Wind very variable: (1) mainly Southerly over Russia and Finland, Northerly over Denmark, Westerly over Austria, North-Westerly over the east of our Islands, France, Spain, and the Mediterranean; a gale at Cape Sicié, Sanguinaire, and Cagliari; (2) Southerly over Brittany, and on our own western coasts (a gale at Stornoway), but inclined to veer to North-West again in the south of Ireland. Shifting to Westward in Scotland and the west of our Islands generally during day; gales at Stornoway and in the south of France dying down, but Southerly gale setting in at Skudesnaes and North-Easterly breeze over Baltic.

Barometer highest, (1) 30·3 ins. to 30·0 ins. over the Peninsula and south-west of France, and exceeding 29·7 ins. at all the French and southern English stations; (2) 29·7 ins. and more to 29·4 ins. over central and southern Russia. Lowest, 29·2 ins. and less in three depressions, viz., one over Hungary and the Balkan Peninsula, another over Lapland, and a third approaching our extreme north-western coasts from the westward. Falling to below 28·9 ins. in the Shetlands later, but tending to rise over the Mediterranean, Spain, and Ireland.

Friday, 5th February.

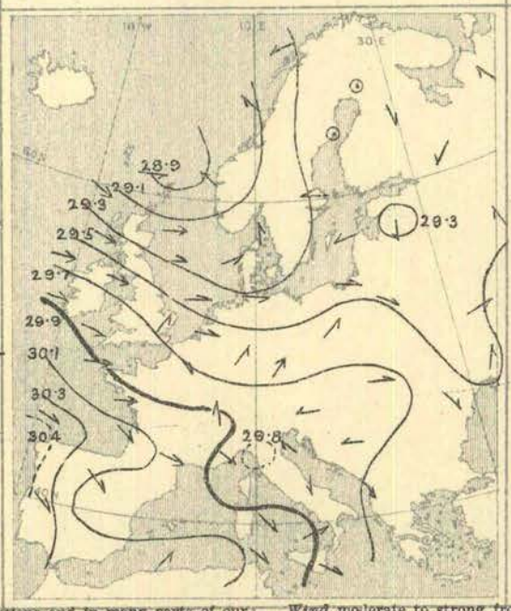
Temperature and Weather.

8 a.m.

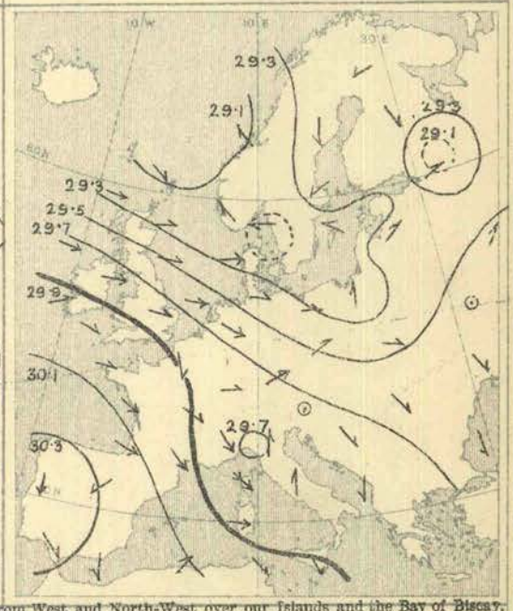


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright at most Scandinavian stations and in many parts of our Islands, also on the shores of the Mediterranean; dull and very variable elsewhere. Rain showers in the western parts of our Islands and several parts of France, as well as over central and southern Russia, snow at Hermanstadt and Archangel, fog at the northern extremity of the Gulf of Bothnia. Rain later over the north and west of our Islands and in several parts of France and at Constantinople, hail at Malin Head, snow at some Russian stations.

Temperature risen over our Islands and the north of France, fallen over central Europe. Morning readings exceeding 50° on the Mediterranean coasts (except in the Riviera), and also on the Portuguese and western French coasts; exceeding 40° at most of our own and the French stations, and in the south of Russia, much lower elsewhere. Lowest, −4° Fahr. at Haparanda and Hernösand, 16° at Kuopio and Stockholm, 25° at Archangel, 29° at St. Petersburg, 33° at Kiev, Hermanstadt, and Prague, 35° at Wick, and as low as 30° at Florence and Turin, 36° at Leghorn and Rome, 38° at Nice. Rising later to 61° at Perpignan, to upwards of 55° in the south-west of France and to 50° or more on our own south-west coasts.

Wind moderate to strong from West and North-West over our Islands and the Bay of Biscay, Westerly, fresh, in France, South-Westerly over Germany, Southerly in the north of Denmark, South-Easterly in Norway. Very variable and light over Russia and south-eastern Europe, and a cyclonic circulation of light winds prevailing over the north-eastern part of the Mediterranean, Northerly and North-Westerly over Spain. No great change over western and north-western Europe later, but becoming Northerly over the Gulf of Finland, Southerly in the Baltic Provinces.

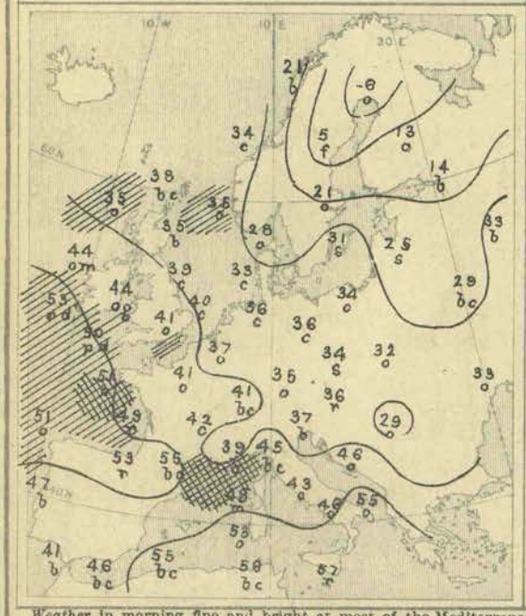
Barometer highest, 30·3 ins. and more to 30·0 ins. in the eastern part of an anticyclone spreading in from the Atlantic over the Iberian Peninsula and Algeria; exceeding 29·6 ins. over the south-western parts of our Islands and France, and also over southern Russia. Lowest, 28·9 ins. and less in a depression over and in the neighbourhood of the Shetlands; 29·2 ins. and less in a secondary over Denmark; 29·3 ins. and less in a shallow depression near Riga; and 29·8 ins. and less over the Gulf of Genoa. Main disturbance in north beginning to fill up later, but secondary over Denmark and that over the Gulf of Genoa growing deeper.

Judd & Co. Lith. 63, Carter Lane, Doctors' Commons.

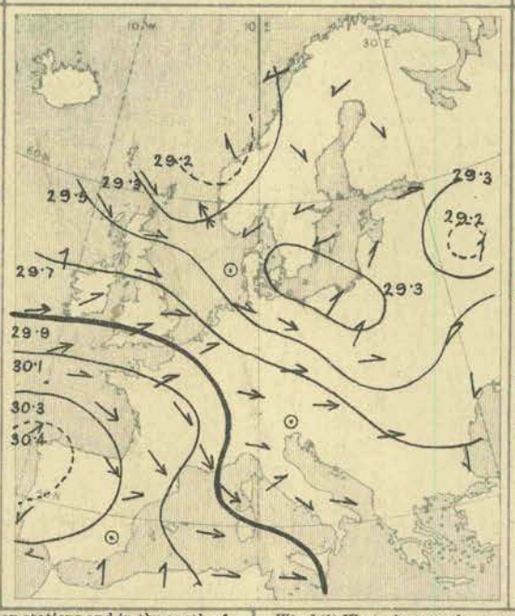
III.—SUMMARY OF WEATHER OVER EUROPE.

Saturday, 6th February.

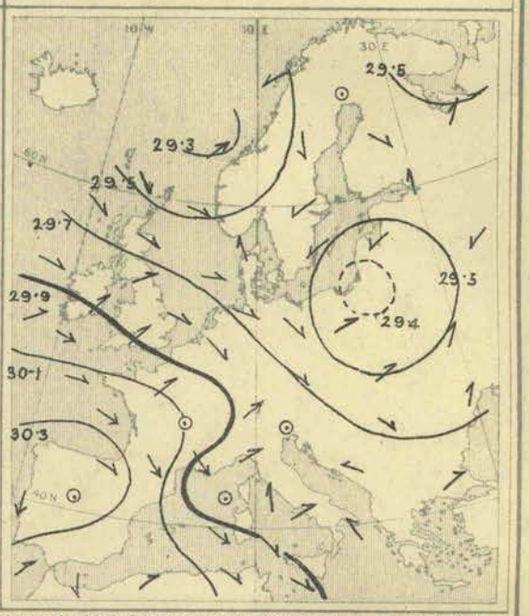
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



6 p.m.



Weather in morning fine and bright at most of the Mediterranean stations and in the south of Spain, and temporarily fine in the north-east of our Islands, in the north-west of Norway, and over central Russia; cloudy or overcast elsewhere, with rain at our western stations and Biarritz, rain and snow in eastern Austria, Poland, and southern Russia, and snow at Riga. Rain later, in small quantities, over our Islands, the North Sea, and greater part of France, snow showers in Russia.

Temperature in morning exceeding 50° at many stations on the southern and western sides of the Mediterranean and the Atlantic coasts of France and the British Islands, and exceeding 40° over France and the United Kingdom generally, much lower elsewhere. Lowest, −6° Fahr. at Uleaborg, +1° at Hangö, 2° at Helsingfors, 5° at Hernösand, 14° at St. Petersburg, 21° at Bodö and Stockholm, 25° at Riga, 29° at Kiev. Rising later to between 50° and 55° in Ireland, Wales, and the west of France, to 57° at Nice, 60° at Perpignan, and to between 60° and 70° over the southern parts of Italy, in Algeria, and at Tunis.

Wind (1) Westerly over the greater part of our Islands, the Netherlands, Germany, and Austria, North-Westerly in Scotland, but South-Easterly in Norway; (2) very variable over the northern parts of Russia; (3) mainly North-Westerly over the Mediterranean, variable over Spain. Becoming North-Westerly over north Germany later and Westerly over the southern half of Norway. The North-Westerly wind over the Mediterranean increasing to a gale in several places, but light South-Westerly winds felt over Italy.

Barometer highest, 30·4 ins. and more to 30·6 ins. in an anticyclone over Spain, France, the Bay of Biscay, and western part of the English Channel; and exceeding 29·5 ins. over some parts of the Gulf of Bothnia. Lowest, 29·2 ins. and less in a depression off the west of Norway; 29·3 ins. and less in another over north Germany and the southern parts of the Baltic; and about 29·2 ins. in another near Moscow. Depressions near Norway and over the Baltic filling up partially later, and barometer rising over our Islands, falling over Spain.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶⟩ = a fresh to strong breeze; ⟶⟩ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of this week barometric pressure was highest (30·4 ins. and more to 30·1 ins.) over south-western and southern Europe and the Mediterranean, while it was lowest over the more northern countries and off our extreme north-west coasts. The wind was consequently mainly Westerly and temperature high. Large disturbances then came towards Scandinavia and the Baltic from the Atlantic, and secondary systems of considerable intensity were developed over the Mediterranean and passed on to central Europe. On February 1st the barometer fell to 28·02 ins. in the Shetland Isles; thus, while Southerly winds became prevalent over the eastern countries, North-Westerly breezes formed the dominant current over western Europe and the British Islands. Temperature fell in the latter regions, and snow and hail showers fell in many localities, but as the week drew towards its close the anticyclone in the south-west was advancing eastwards and northwards again, and milder weather was again spreading over us slowly from the westward.

BRIGHT SUNSHINE Values for the Week in addition to those found on page 26.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	16·9	?	28	?	EASTBOURNE	16·0	?	25	?
OSWALDKIRK (Yorkshire)	24·4	?	39	?	TENBY	17·8*	?	28*	?
WORKSOP	16·8	+ 5·4	27	+ 9	NEWQUAY	16·7	?	26	?
THURCASTON (Leicestershire	18·5	+ 8·0	30	+14	TORQUAY	17·5*	?	27*	?
MARGATE	20·5	?	32	?	ARLEY COTTAGE (County Cavan)	10·8	?	17	?
BRIGHTON	11·5	?	18	?	GUERNSEY				

* The values at Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.
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VOL. IX. No. 6.] *Third Series.* WEEK ENDING SATURDAY, 13TH FEBRUARY, 1892. [*Price 6d.* [*Annual subscription, post paid.* £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years' observations (1871-90). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the ten years 1881-90. RAINFALL.—*The Mean amounts* are those for the corresponding periods in the twenty-five years 1856-90, but the *Mean numbers of Rainy Days* are those for the ten years 1881-90, only. BRIGHT SUNSHINE.—*The Mean values* employed are those for the corresponding periods in the ten years 1881-90.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 32.)	Observed during the Week. Highest.	Observed during the Week. Lowest.	Averages of Daily Maxima.	Averages of Daily Minima.	Averages of Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	For the Week. Difference from Mean.	For the Week. Below 42°	For the Week. Difference from Mean.	From January 3rd, 1892. Above 42°	From January 3rd, 1892. Difference from Mean.	From January 3rd, 1892. Below 42°	From January 3rd, 1892. Difference from Mean.
		°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	52	29	46·8	38·3	42·6	4 above.	20	+15	10	−24	43	+ 3	240	+ 41
	1. SCOTLAND, EAST -	57	32	48·6	38·2	43·9	6 above.	29	+20	11	−25	57	+ 9	265	+ 34
	2. ENGLAND, N.E. - -	56	32	48·8	37·8	43·3	4 above.	27	+18	12	−20	56	+14	236	+ 23
	3. ENGLAND, EAST -	56	27	48·0	36·6	42·3	4 above.	25	+16	15	−21	50	+ 4	276	+ 34
	4. MIDLAND COUNTIES	57	27	48·6	37·9	43·3	4 above.	26	+15	11	−24	66	+ 9	266	+ 29
	5. ENGLAND, SOUTH -	55	30	47·7	39·4	43·6	3 above.	22	+ 9	7	−20	71	+ 3	191	+ 11
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	55	33	48·8	40·4	44·6	5 above.	25	+16	4	−21	60	+ 2	189	+ 22
	7. ENGLAND, N.W. -	53	33	46·7	40·8	43·7	4 above.	17	+ 8	3	−23	43	− 9	186	+ 14
	8. ENGLAND, S.W. -	53	30	48·7	40·3	44·5	3 above.	25	+ 8	5	−15	81	−13	156	+ 30
	9. IRELAND, NORTH -	56	38	49·1	42·7	45·9	5 above.	27	+13	0	−23	63	−17	167	+ 18
	10. IRELAND, SOUTH -	55	35	49·5	43·4	46·5	3 above.	32	+11	0	−18	102	−19	142	+ 29
	— CHANNEL ISLANDS -	51	41	49·0	44·8	46·9	3 above.	34	+12	0	− 7	127	− 1	55	+ 1

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 32.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1892. Number of Rainy Days.	Difference from Mean.	Total Fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1892. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of In.	10ths of In.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	6	6	5 less.	36	+ 5	8·4	+ 1·0	6	− 4	10	− 8	38	− 4	12	− 1
	1. SCOTLAND, EAST -	3	2	4 less.	23	0	2·8	− 1·0	19	− 3	31	− 2	72	− 5	22	− 2
	2. ENGLAND, N.E. - -	4	2	2 less.	20	− 1	1·6	− 1·0	27	+12	42	+18	81	+26	23	+ 7
	3. ENGLAND, EAST -	4	3	1 less.	22	0	1·4	− 1·3	13	− 2	19	− 1	78	+ 1	22	0
	4. MIDLAND COUNTIES-	3	2	3 less.	23	+ 1	1·9	− 1·4	15	+ 1	22	+ 1	77	+12	22	+ 4
	5. ENGLAND, SOUTH -	2	2	3 less.	20	− 2	1·5	− 2·1	9	− 5	13	− 8	74	+11	20	+ 2
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	4	5	7 less.	31	+ 3	6·6	− 1·2	12	− 1	19	0	66	+10	19	+ 2
	7. ENGLAND, N.W. - -	3	4	2 less.	27	+ 2	4·3	+ 0·1	16	+ 2	24	+ 3	67	+ 9	19	+ 2
	8. ENGLAND S.W. - -	3	3	6 less.	27	+ 1	3·4	− 2·2	14	− 3	21	− 4	89	+14	24	+ 3
	9. IRELAND, NORTH -	4	5	2 less.	31	+ 3	4·2	− 0·5	6	− 8	9	−10	55	−11	16	− 3
	10. IRELAND, SOUTH -	3	2	6 less.	26	− 1	3·9	− 1·7	6	−11	8	−17	67	−14	19	− 4
	— CHANNEL ISLANDS -	2	1	6 less.	31	+ 3	3·0	− 1·6	4	−17	6	−24	56	−45	15	−12

Bright Sunshine.—For several of the stations there are no "mean" values available, and the "difference from the mean" in some of the districts is consequently that of only a few of the stations.

General Remarks.

Weather was unsettled, with slight rain, during the earlier part of the period, but subsequently it became dry in nearly all parts of the Kingdom. Much cloud, however, was experienced, except in the north-east of Great Britain, and slight falls of rain continued in the extreme north-western districts.

Temperature was considerably above the mean, the excess ranging from 3° in England S. and S.W., Ireland S., and the Channel Islands, to 5° in Scotland W. and Ireland N., and to 6° in Scotland E. The highest of the maxima were recorded, as a rule, either on the 7th or 11th, and varied from 57° in Scotland E. and the Midland Counties, to 52° in Scotland N. and 51° in the Channel Islands. The lowest of the minima were registered either on the 12th or 13th, and ranged from 27° in England E. and the Midland Counties, and from between 29° and 33° in most other districts, to 38° in Ireland N., and 41° in the Channel Islands. At the end of the week temperature was decreasing very quickly.

Rainfall was less than the mean in all districts, but the deficiency in Ireland N. and England E. and N.E. was slight when compared with other districts.

Bright Sunshine exceeded the mean in England N.E., but showed a deficit in nearly all other districts. The percentage of possible duration ranged from 42 in England N.E. and 31 in Scotland E., to 10 in Scotland N., 8 or 9 over Ireland, and to only 6 in the Channel Islands.

Barometer and Wind.—Soon after the commencement of the week an anticyclone began to extend over the Kingdom from the Atlantic, and continued to increase in intensity and to spread over us with but little interruption throughout the entire period. No depressions appeared directly over our Islands, but some systems of varying size and depth skirted our north-western, northern, or north-eastern coasts. Light or moderate winds from between South-West and North-West prevailed very generally, but in the extreme north-west and north they occasionally increased somewhat in force.

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II.—DATA from which the SUMMARY on page 31 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head ℌ	49	32	44·1	36·9	40·5	+ 1·7	6	19	6	0·74	−0·06	*	*	*	*
	Stornoway	50	32	48·1	39·7	43·9	+ 4·7	23	6	6	0·43	−0·58	8·7	− 4·5	14	− 8
	Wick	51	32	47·4	37·1	42·3	+ 4·3	23	14	5	0·57	+0·07	*	*	*	*
	Lairg ℌ	50	32	46·6	35·3	42·5	+ 6·0	19	10	7	0·38	−0·37	*	*	*	*
	Glencarron ℌ	47	32	45·3	38·5	41·9	+ 4·4	9	15	7	1·70	−0·10	*	*	*	*
	Fort Augustus ℌ	52	29	48·3	37·7	43·0	+ 4·3	25	12	5	0·13	−0·85	4·6	?	7	?
	Fort William ℌ	50	33	47·8	40·2	44·0	+ 4·6	22	5	6	0·43	−1·62	4·9	?	8	?
1. SCOTLAND, E.	Nairn	54	32	49·9	39·0	44·5	+ 6·1	30	8	4	0·19	−0·20	*	*	*	*
	Aberdeen	56	35	49·3	38·0	43·7	+ 5·3	29	11	5	0·35	−0·23	14·3	− 1·7	23	− 2
	Braemar ℌ	49	32	45·0	36·7	40·9	+ 5·7	8	21	4	0·13	−0·62	15·8†	?†	26†	?†
	Ochtertyre ℌ	57	32	52·6	37·9	45·3	+ 8·3	40	11	2	0·14	−0·86	*	*	*	*
	Leith	55	35	51·9	40·0	46·0	+ 6·0	36	6	2	0·26	−0·12	*	*	*	*
	Marchmont ℌ	52	32	48·6	37·6	43·1	+ 5·6	26	12	3	0·28	−0·30	24·0	?	38	?
2. ENGLAND, N.E.	Alnwick Castle	52	34	48·7	38·6	43·7	+ 5·3	26	10	3	0·15	−0·36	*	*	*	*
	Durham	54	32	50·5	36·8	43·7	+ 5·7	34	15	3	0·08	−0·33	25·4	+11·4	40	+18
	Shields	56	32	49·9	37·9	43·9	+ 4·5	31	11	3	0·24	−0·15	*	*	*	*
	Scarborough ℌ	54	35	48·5	37·9	43·2	+ 3·7	26	11	5	0·18	−0·26	*	*	*	*
	York	55	33	50·0	36·4	43·2	+ 4·2	32	16	4	0·40	−0·03	23·9	+12·1	37	+19
	Spurn Head	49	37	45·3	38·9	42·1	+ 3·1	14	9	4	0·28	−0·06	*	*	*	*
3. ENGLAND, E.	Hillington ℌ	53	27	48·2	36·0	42·1	+ 3·4	26	17	3	0·95	+0·50	14·3	− 0·5	22	0
	Yarmouth	52	30	45·7	35·3	40·5	+ 1·9	10	26	5	0·25	−0·22	*	*	*	*
	Geldeston	54	30	48·5	35·6	43·1	+ 2·9	28	18	4	0·25	−0·13	11·2	− 4·8	17	− 7
	Cambridge	56	29	50·1	36·9	43·5	+ 4·5	32	14	2	0·10	−0·28	17·0	+ 2·0	26	+ 4
	Rothamsted	53	33	47·5	39·0	43·3	+ 5·1	22	8	4	0·15	−0·38	7·7	?	12	?
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	54	32	49·0	35·9	42·5	+ 3·3	29	17	3	0·22	−0·18	*	*	*	*
	Loughborough	57	36	50·0	39·3	44·7	+ 5·5	30	5	3	0·14	−0·33	*	*	*	*
	Stamford (Ketton Hall)	56	28	50·1	37·1	43·6	+ 4·2	32	14	3	0·15	−0·27	*	*	*	*
	Cheadle ℌ	50	32	46·5	38·7	42·6	+ 4·8	18	9	4	0·27	−0·33	*	*	*	*
	Churchstoke ℌ	51	27	47·6	34·9	41·3	+ 2·4	16	29	3	0·30	−0·35	5·2	− 9·0	8	−14
	Hereford ℌ	53	32	48·8	38·9	43·9	+ 3·9	26	9	1	0·25	−0·29	*	*	*	*
	Cirencester	53	35	47·9	38·7	43·3	+ 4·6	23	9	2	0·23	−0·42	10·2	− 5·7	15	− 9
	Oxford	52	35	48·9	39·7	44·3	+ 4·3	26	6	2	0·13	−0·37	8·6	− 5·7	13	− 7
5. ENGLAND, S.	London	53	31	48·3	39·3	43·8	+ 3·7	24	8	3	0·15	−0·30	5·3†	− 3·9†	8†	− 5†
	North Foreland	54	34	46·1	39·1	42·6	+ 2·4	16	8	2	0·35	?	*	*	*	*
	Strathfield Turgiss ℌ	52	32	48·4	38·5	43·5	+ 4·0	25	10	2	0·18	−0·32	*	*	*	*
	Dungeness	51	20	46·6	37·7	42·2	+ 2·1	19	12	3	0·26	−0·24	*	*	*	*
	Hastings (St. Leonards)	50	34	46·3	39·4	42·9	+ 2·5	17	7	4	0·29	−0·25	7·9	−10·9	12	−15
	Southampton	55	35	50·8	41·7	46·3	+ 5·3	31	1	2	0·09	−0·56	12·6	− 3·2	19	− 4
	Hurst Castle	52	36	48·6	41·1	44·9	+ 3·9	24	3	1	0·05	−0·56	*	*	*	*
	Stowell ℌ	52	32	46·7	38·0	42·4	+ 3·2	20	11	2	0·27	?	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	55	33	49·6	39·4	44·5	+ 4·3	28	7	7	1·13	−0·76	*	*	*	*
	Glasgow	49	38	47·9	41·0	44·5	+ 5·4	22	3	4	0·39	−0·49	12·8	+ 2·8	20	+ 5
	Ardrossan	50	37	48·4	42·3	45·4	+ 4·9	24	0	2	0·33	−0·47	*	*	*	*
	Glenlee ℌ	52	33	49·7	37·1	43·4	+ 5·3	30	14	3	0·47	−0·84	*	*	*	*
	Douglas (Isle of Man)	51	39	48·4	42·2	45·3	+ 4·5	23	0	3	0·17	−0·73	11·2	− 4·1	17	− 6
7. ENGLAND, N.W.	Newton Reigny	51	33	47·4	38·0	42·7	+ 5·3	22	11	3	0·38	−0·37	20·1	+ 7·1	31	+11
	Stonyhurst	48	34	46·1	38·4	42·3	+ 3·3	17	10	3	0·83	−0·03	19·8	+5·9	30	+10
	Blackpool ℌ	47	39	44·6	39·9	42·3	+ 3·0	11	6	2	0·35	−0·25	15·3	+ 1·3	24	+ 4
	Manchester	50	36	46·6	41·2	43·9	+ 5·1	17	2	3	0·46	−0·08	*	*	*	*
	Liverpool Obsy. (Bidston)	53	40	46·3	41·9	44·1	+ 3·8	15	0	4	0·29	−0·13	*	*	*	*
	Llandudno ℌ	52	38	48·0	42·5	45·3	+ 3·4	23	0	3	0·32	−0·23	6·6	− 8·0	10	−13
	Holyhead	50	41	47·6	43·6	45·6	+ 3·6	25	0	4	0·24	−0·44	*	*	*	*
8. ENGLAND, S.W.	Llandovery	50	30	48·0	36·9	42·5	+ 1·1	25	14	4	1·09	+0·04	*	*	*	*
	Pembroke	50	38	47·9	43·7	45·3	+ 2·8	23	0	4	0·16	−0·58	5·4	−12·4	8	−18
	Arlington (N. Devon)	48	32	46·0	37·7	41·9	+ 1·9	11	18	5	0·58	−0·44	*	*	*	*
	Cullompton ℌ	52	30	49·6	37·6	43·6	+ 3·1	30	12	2	0·19	−0·54	15·4	+ 0·9	23	+ 2
	Falmouth	51	40	49·1	43·8	46·5	+ 3·1	32	0	0	—	−1·07	17·5	− 1·1	26	0
	Plymouth	52	37	49·8	42·8	46·3	+ 3·5	30	0	2	0·01	− 0·78	17·2	+ 0·2	26	+ 1
	Prawle Point	53	36	50·6	40·6	45·6	+ 3·2	31	4	1	0·02	−0·52	*	*	*	*
9. IRELAND, N.	Malin Head	48	41	46·3	43·0	44·7	+ 2·5	19	0	6	0·42	?	*	*	*	*
	Londonderry	56	42	50·1	43·0	46·6	+ 4·2	32	0	4	0·46	−0·29	*	*	*	*
	Mullaghmore	51	42	48·1	44·1	46·1	+ 3·6	29	0	7	0·29	−0·51	*	*	*	*
	Belmullet	51	43	48·7	45·0	46·9	+ 4·7	34	0	7	0·81	?	*	*	*	*
	Markree Castle	54	39	49·6	42·1	45·9	+ 5·4	27	0	5	0·68	−0·02	8·0	− 6·3	12	− 9
	Brookeborough	52	40	48·7	42·2	45·5	+ 5·8	25	0	2	0·42	−0·38	*	*	*	*
	Armagh	53	38	49·4	41·5	45·5	+ 5·5	27	1	3	0·35	−0·25	5·9	− 8·3	9	−12
	Donaghadee	54	40	50·1	42·4	46·3	+ 5·2	30	0	1	0·15	−0·46	*	*	*	*
	Edgeworthstown	56	40	50·7	40·9	45·8	+ 6·0	31	3	5	0·68	−0·02	*	*	*	*
10. IRELAND, S.	Dublin	55	39	50·2	42·7	46·5	+ 4·1	32	0	3	0·33	−0·20	8·8	− 7·3	13	−12
	Parsonstown	53	41	48·7	42·9	45·8	+ 4·6	27	0	3	0·38	−0·18	4·2	−11·6	6	−18
	Kilkenny	54	37	48·4	42·0	45·2	+ 3·1	22	0	3	0·33	−0·37	*	*	*	*
	Waterford	55	36	49·5	42·5	46·0	+ 2·7	28	0	0	—	−0·95	*	*	*	*
	Roche's Point	55	38	50·6	44·4	47·5	+ 3·5	39	0	0	—	−1·14	*	*	*	*
	Valencia	53	35	50·1	44·4	47·3	+ 2·2	37	0	5	0·18	−1·10	3·7	−13·4	6	−20
	Killarney	55	41	49·9	44·9	47·4	+ 3·2	38	0	3	0·03	?	*	*	*	*
	Foynes	53	40	48·2	43·6	45·9	+ 2·8	27	0	4	0·19	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	51	42	49·0	44·9	47·0	+ 1·1	35	0	1	0·02	−0·70	*	*	*	*
	Jersey	51	41	49·0	44·6	46·8	+ 3·9	34	0	3	0·08	−0·56	3·8	−17·0	6	−24

Stations marked ℌ are in connection with the Royal Meteorological Society, and those marked ℑ with the Scottish Meteorological Society.

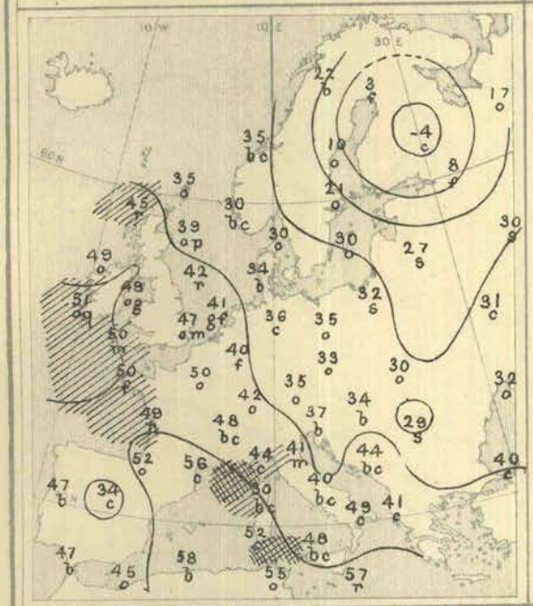
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory and the Meteorological Office, Victoria Street. For additional Reports of Sunshine see last page.

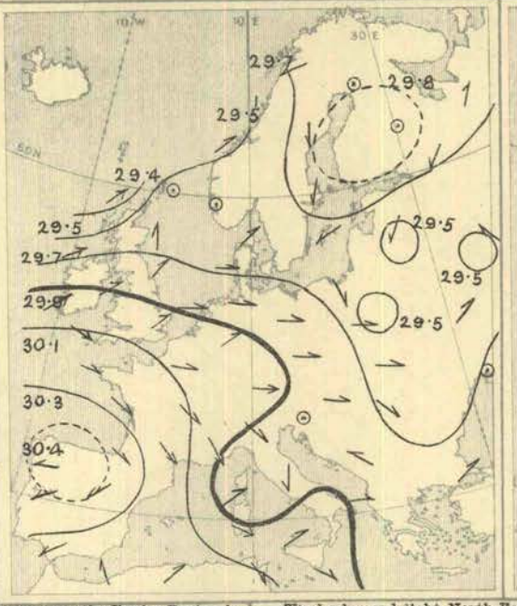
III.—SUMMARY OF WEATHER OVER EUROPE.

Sunday, 7th February.

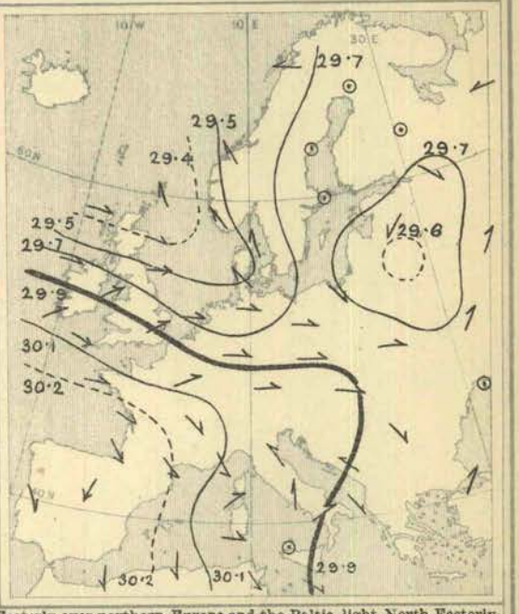
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine on the Norwegian coast and over Algeria, fair over the Iberian Peninsula, dull and unsettled elsewhere; rain falling in many parts of the United Kingdom and France, snow over central Russia, fog prevalent over many parts of northern Europe. Rain falling later at nearly all stations in our Islands and western and central Europe, the largest amounts (exceeding 0·3 in.) being reported from the extreme west of Ireland, the Hebrides, and Shetlands.

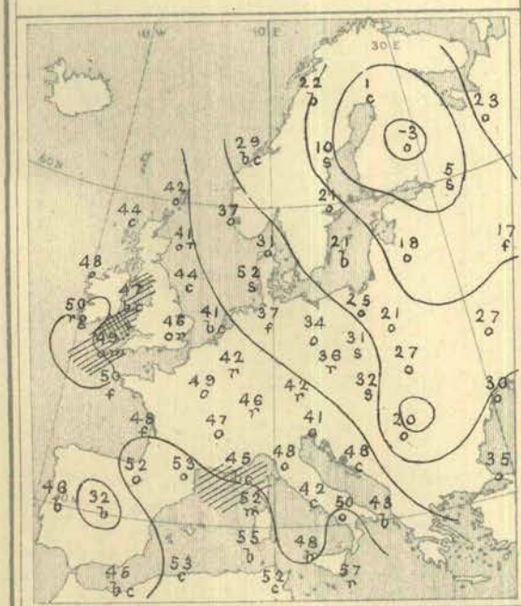
Temperature high over western, low over northern Europe, and rising in both localities, falling over Russia and central Europe. Morning readings 50° or more at the Algerian and some of the Spanish stations, as well as at Paris, Scilly, and Valencia Island; exceeding 40° over our Islands and France generally, but much lower elsewhere. Lowest, −4° Fahr. at Kuopio, +3° at Haparanda, 8° at St. Petersburg, 10° at Helsingfors and Hernösand, 28° at Odessa, 30° at Lemberg and Breslau. Rising later to between 50° and 56° in many parts of our Islands and France; exceeding 60° in Spain, Algeria, and the extreme southern parts of France and Italy, the highest reading of all being 66° at Barcelona, Lisbon, and Palermo.

Wind calm and light North-Easterly over northern Europe and the Baltic, light North-Easterly over the Spanish Peninsula; South-Westerly to Westerly over the British Islands, Westerly over France and western Germany, Westerly and North-Westerly over Austria and Hungary, North-Westerly to Northerly over the Mediterranean, calm over southern Russia. Becoming Westerly over our Islands later and blowing a strong breeze in many places; shifting to the South-Eastward on the eastern shores of the North Sea.

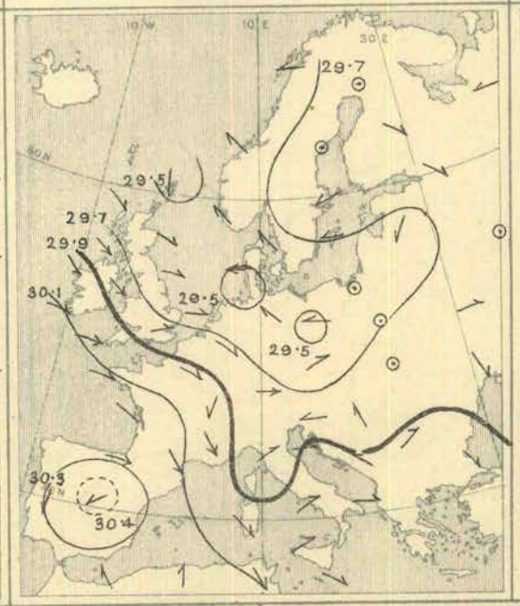
Barometer highest, (1) 30·4 ins. and more to 30·0 ins. in an anticyclone lying over Spain, France, the Bay of Biscay, and extreme south-west of our Islands; (2) 29·8 ins. to 29·7 ins. over Finland, the north of Sweden, and Lapland. Lowest, 29·5 ins. and less in a depression off the north-west of Scotland, and in a series of shallow systems lying over Russia and Poland; below 29·9 ins. in another disturbance over the Gulf of Genoa and Corsica. Depression (secondary) crossing Scotland later, and barometer beginning to rise in the west of Ireland; disturbances over Poland and Russia filling up gradually.

Monday, 8th February.

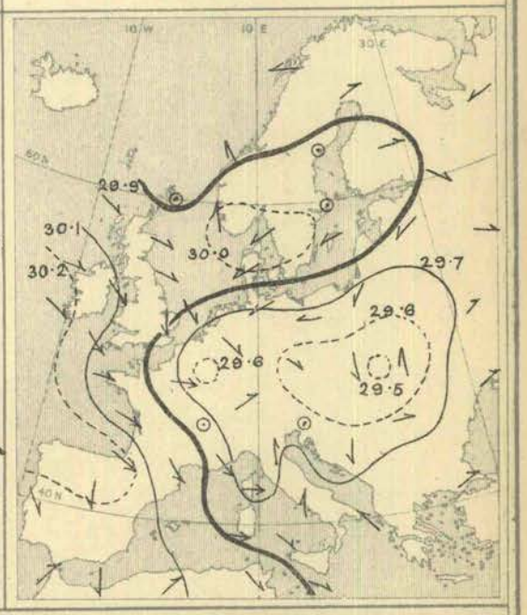
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather cloudy or overcast over the greater part of Europe, with rain in many of the western countries, and with snow at several of the Swedish, Russian, German, and Austrian stations. Fine over Spain, Algeria, and the southern parts of France and Italy. Very little change occurring during day, but heavy squalls and showers passing over the south-east of England, and thunder and lightning reported at Clermont.

Temperature highest, (1) 57° at Malta, 55° at Cagliari, 54° at Barcelona; (2) 53° at Roche's Point, and 50° at Parsonstown, Valencia Island, Jersey, and Brest; above 45° at many of our own western and southern stations. Lowest, −3° at Kuopio, +1° at Haparanda, 2° at Uleaborg, 5° at Kuopio, 10° at Hernösand, and 14° at Helsingfors; below the freezing point in most parts of northern and eastern Europe, and as low as 32° at Madrid. Rising during day to 50° or more at most of the English and Irish stations, and reaching 54° at Leith. Exceeding 60° in most parts of southern Europe and Algeria, the highest European readings being 68° at Oporto and 66° at San Fernando and Palermo.

Wind Westerly to North-Westerly over our Islands, the Netherlands, and western Germany, fresh or strong in force on our western and southern coasts, and also in the south of France. Light or moderate from the Eastward (South-East to North-East) over Norway, Denmark, north Germany, and the Baltic. Calm over the northern parts of Sweden; variable over Russia and Austria, chiefly South-Westerly in Italy, and Southerly in Algeria. Subsequently veering to the North-Westward or Northward over the south-east of England, and blowing with the force of a moderate to a fresh gale.

Barometer, 30·3 ins. to 30·45 ins. in an anticyclone lying over Spain, 29·8 ins. and upwards in large areas lying respectively over central Russia and the Gulf of Bothnia. Lowest, 29·5 ins. and less in three small depressions—one lying near the Shetlands, another over Holstein, and the third near Berlin. Disturbance over Holstein subsequently travelling in a south-south-westerly direction over Belgium and France; barometer rising briskly over the northern parts of the United Kingdom. German depression moving away to the eastward.

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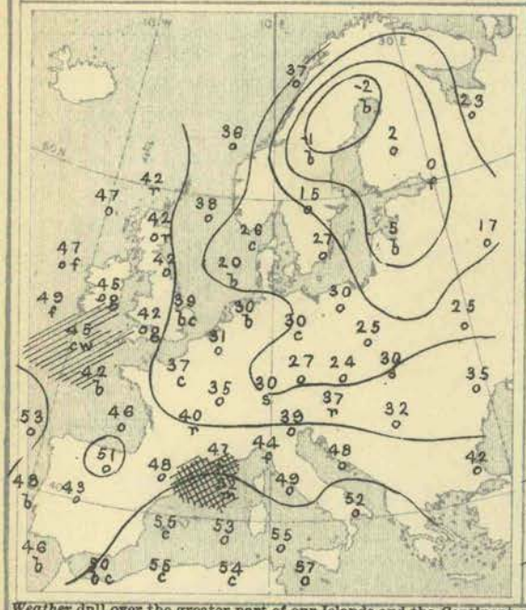
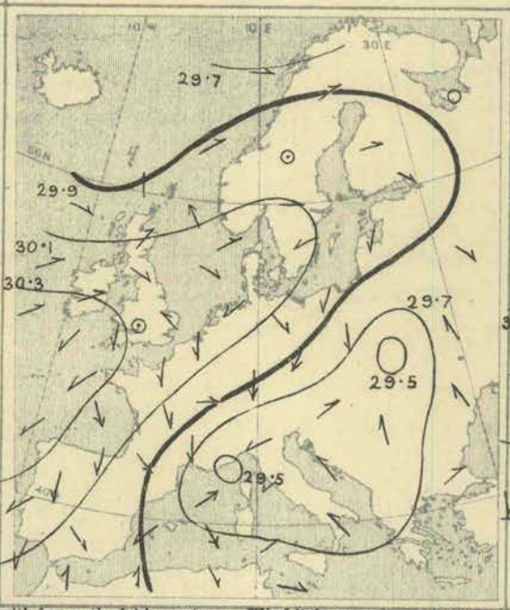
III.—SUMMARY OF WEATHER OVER EUROPE.

Tuesday, 9th February.

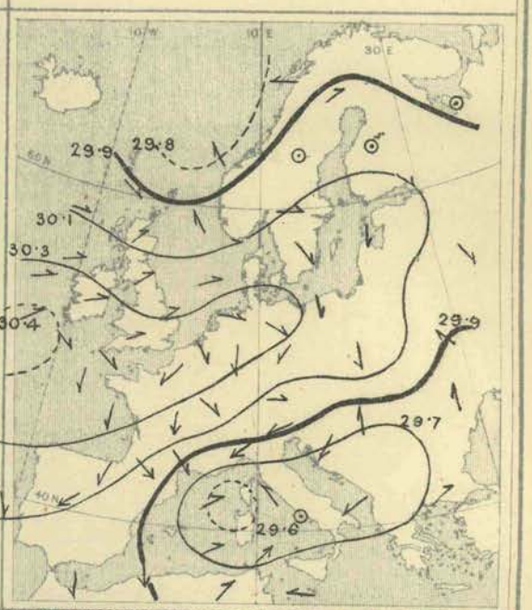
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather dull over the greater part of our Islands and the Continent, with fog on the Irish coasts, rain at several of our northern and north-western stations, as well as at Lyons and Buda-Pesth, and snow at Munich, Vienna, and Lemberg. Fine over Algeria, and also over the western parts of the English Channel. Slight rain falling during day in many parts of the United Kingdom, and larger amounts at some of the Danish and Norwegian stations, as well as in Italy and Algeria.

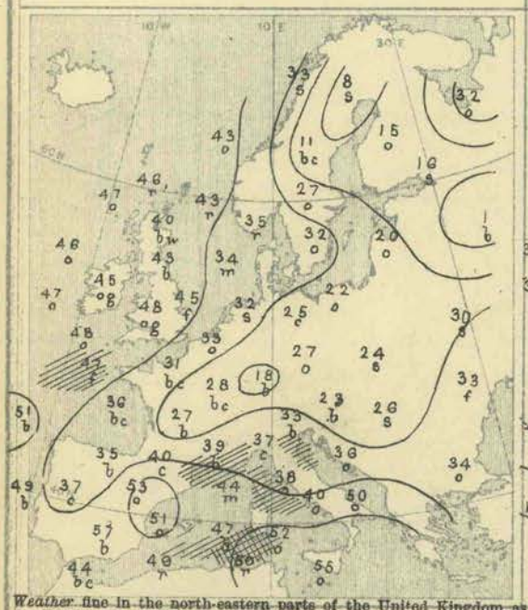
Temperature highest, 57° at Malta, 56° at Barcelona, and 55° at Palma, Algiers, and Palermo; above 50° at most of the Mediterranean stations, and also on the north coasts of Spain, above 45° in many parts of Ireland and Scotland. Lowest, −2° Fahr. at Uleaborg and Hangö, −1° at Hernösand, 0° zero at St. Petersburg, +2° at Kuopio, and 5° at Riga; below the freezing point over the greater part of northern, eastern, and central Europe. Rising during day to 50° or more at several of our own stations, the highest reading being 54° at Nairn. Exceeding 55° in the extreme south of France, and exceeding 60° in Spain, Algeria, and the south of Italy.

Wind light or moderate from the South-Westward over the north-west and north of our Islands, as well as in many parts of Scandinavia. Light or moderate from the Northward over the southern parts of the United Kingdom, and moderate to fresh from the same quarter over France, Spain, and Germany. Light and variable in Russia and Austria; variable, but chiefly Easterly, in Italy, North-Westerly in Tunis, Southerly in Algeria. Subsequently backing to the South-Eastward in the west of Norway; North-Easterly gale springing up at some of the Adriatic stations.

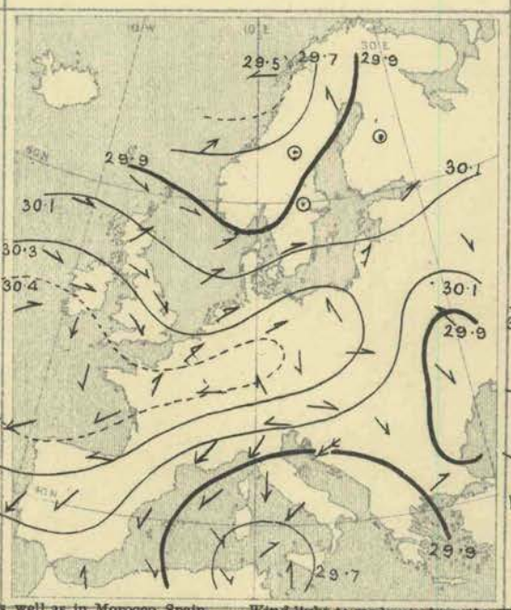
Barometer highest, 30·3 ins. and upwards in an anticyclone extending from the Atlantic over the southern portions of the United Kingdom and the extreme north-western parts of France and Spain. Lowest, 29·5 ins. and less in two small depressions lying respectively over Galicia and over the Gulf of Genoa; 29·6 ins. and less in an irregularly-formed area extending from the former to the latter region and embracing the greater part of Italy; 29·8 ins. and less over the northern parts of Russia and Scandinavia. Anticyclone spreading further eastward during day, and barometer rising in most parts of western Europe.

Wednesday, 10th February.

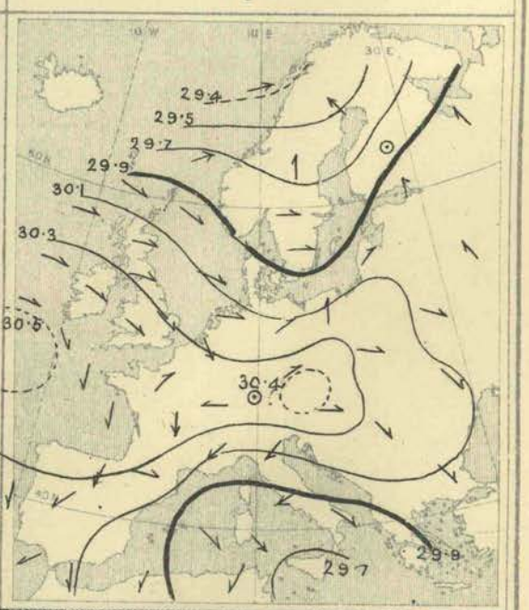
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather fine in the north-eastern parts of the United Kingdom, as well as in Morocco, Spain, France, and south Germany. Cloudy or overcast elsewhere, with fog on the south-east coast of England and in a few other isolated localities; rain in the south of Scandinavia and in Algeria, and snow at several of the Danish, Russian, and Austrian stations. A little rain falling later in the extreme west and north of our Islands, and dull weather setting in over the greater part of France. Large quantities of rain falling in Algeria and the south of Italy, with a thunderstorm at Algiers.

Temperature highest, (1) 55° at Malta, 53° at Barcelona, 52° at Palermo, and 51° at Palma; (2) 48° at Scilly and Jersey, Oxford, Cambridge, and in London; above 45° in many of the western and northern parts of the United Kingdom. Lowest, 1° at Moscow, 8° at Haparanda, 10° at Uleaborg, 11° at Hernösand, and 15° at Kuopio; below the freezing point over the greater part of northern, eastern, and central Europe, and below 40° over northern Italy and central Spain. Rising during day to between 50° and 52° on the northern and eastern parts of Great Britain, but readings much lower in France. Exceeding 60° in Spain, Algeria, and Sicily, and reaching 68° at Biskra.

Wind light to moderate from the Westward over the northern parts of our Islands, and North-Westerly in the south, but South-Westerly over the Netherlands, Denmark, north Germany, and the Baltic, and Southerly in the north of Sweden. Light and variable in Russia and North-Westerly in Austria. Strong to a gale from the North-Eastward over the northern parts of Italy and the Adriatic, North-Westerly in Algeria, North-Easterly in Spain and the west of France. Subsequently veering to the North-Westward over Denmark and the Netherlands; no important change occurring elsewhere.

Barometer highest, 30·2 ins. to 30·4 ins. and more in an anticyclone spreading from the Atlantic over Ireland, England, and France, across Germany, to central Russia. Lowest, 29·5 ins. and less in a depression lying off the west of Norway; 29·7 ins. and less in another disturbance lying over the central parts of the Mediterranean; 29·9 ins. and less in a third system lying over the south of Russia. Norwegian depression subsequently moving north-eastwards. Mediterranean disturbance travelling slowly eastwards and becoming shallower.

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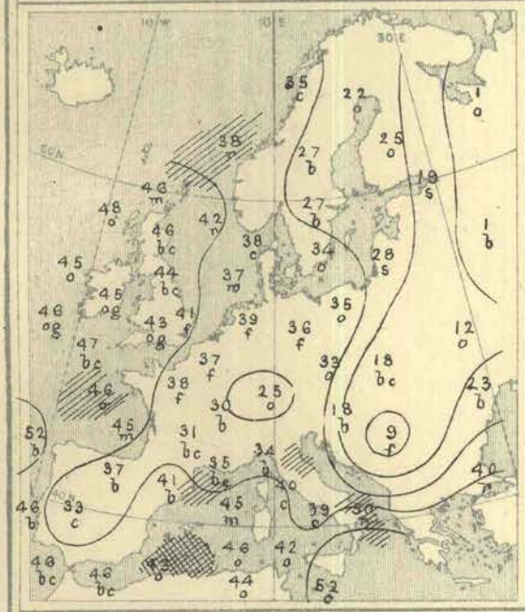
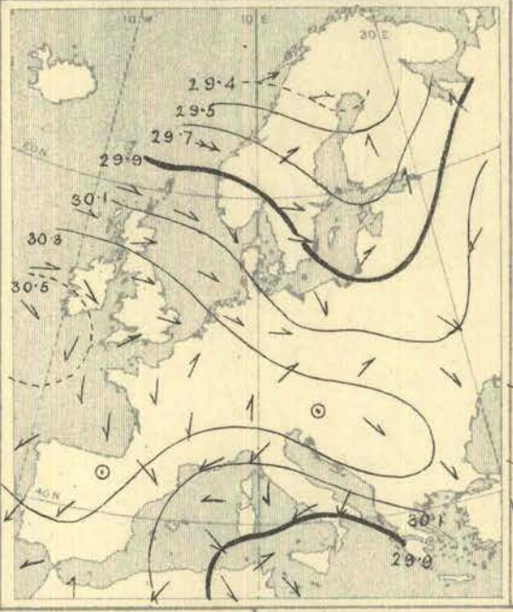
III.—SUMMARY OF WEATHER OVER EUROPE.

Thursday, 11th February.

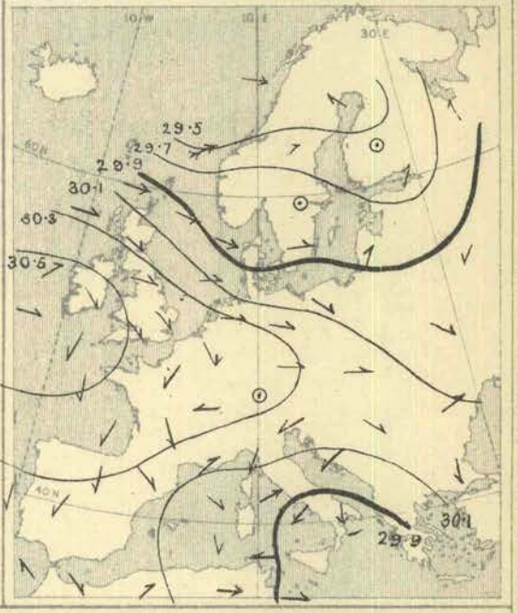
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather cloudy or dull over the greater part of Europe, but fine in the north-east of Great Britain, as well as over Sweden, Spain, and the southern parts of France, Austria, and Russia. Fog reported over Belgium, north Germany, and the north-east of France, rain in the west of Norway, and snow over the Gulf of Finland. Rain falling later in the extreme north and north-west of our Islands, but sky clearing somewhat in the east and south-east of England.

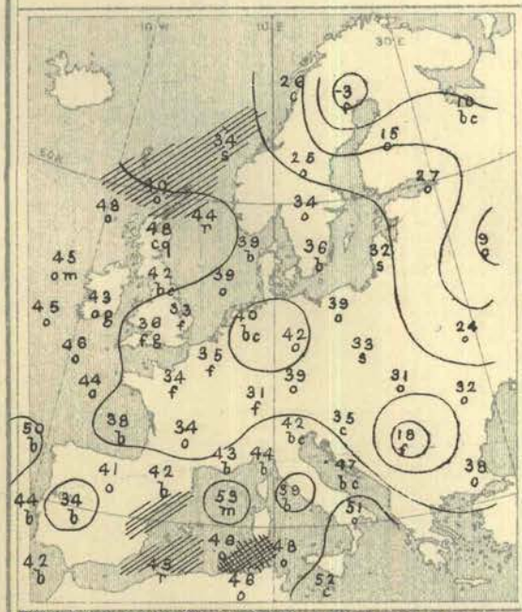
Temperature highest, (1) 52° at Corunna and Malta, 50° at Brindisi, and 47° at Barcelona; (2) 48° at Stornoway and Wick, 47° at Nairn, Leith, and Scilly, and 46° at several of our other western and northern stations. Lowest, −1° Fahr. at Moscow, +1° at Archangel, 9° at Hermanstadt, 10° at Haparanda, and 12° at Kiev; below the freezing point over the whole of Sweden, Russia, and Austria, as well as in some parts of central France, and as low as 33° at Madrid. Rising during day to between 50° and 55° in many of the northern and eastern parts of Great Britain, and reaching 57° at Aberdeen. Exceeding 60° in Spain, Algeria, and Sicily, the highest reading of all being 64° at La Calle and Biskra.

Wind Westerly over the greater part of the United Kingdom, as well as in Scandinavia, Denmark, and Germany, light or moderate in force generally, but strong to a gale in the west of Norway. South-Westerly over the Baltic Provinces and South-Easterly over northern Russia. Light from the Northward over France and the extreme south of England. Moderate from the North-Eastward over Spain and strong from the same quarter in Italy. Variable in Austria and Algeria. No important change occurring during day.

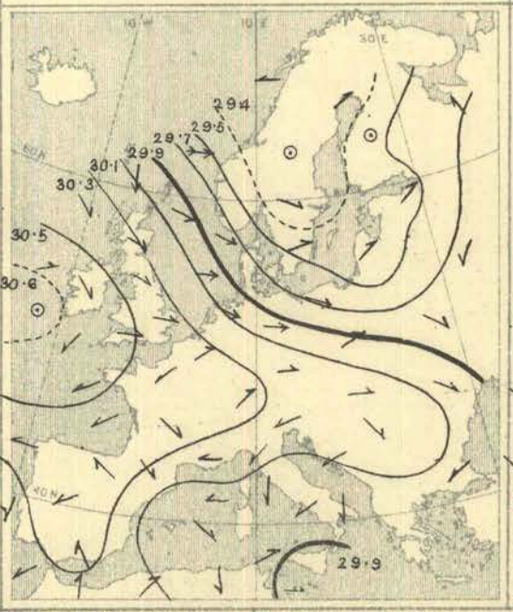
Barometer highest, 30·5 ins. and upwards over the south-west of our Islands and the neighbouring parts of the Atlantic; 30·2 ins. and upwards in a large anticyclone covering nearly the whole of western and central Europe, and extending south-eastwards as far as the Black Sea; 30·2 ins. and upwards in another system lying over central Russia. Lowest, 29·4 ins. and less in a depression lying over the north of Scandinavia; 29·8 ins. and less in a shallow system lying to the southward of Sicily. Depression in far north subsequently spreading southwards and barometer falling over northern Europe generally.

Friday, 12th February.

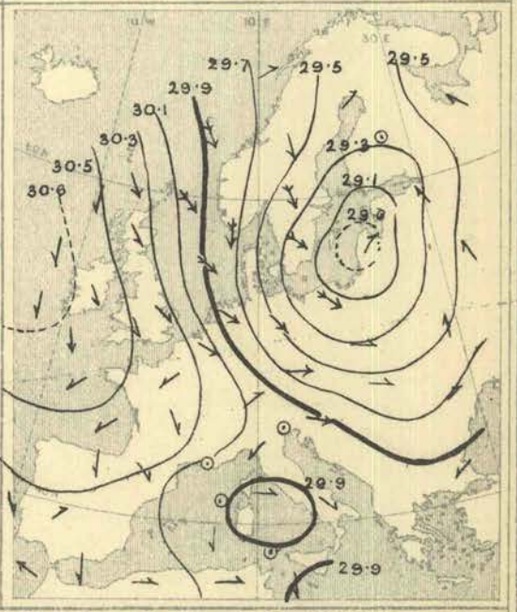
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather dull over the greater part of our Islands, and all but the southern parts of the Continent, with fog over Belgium, central France, and the south-east of England, rain over north Germany and the south of Norway, and snow at Christiansund, Helsingfors, Riga, and Warsaw. Fine in the north-eastern parts of Great Britain, as well as over Spain, northern Italy, and the south of France. Slight rain falling later on our extreme north and north-west coasts, but sky clearing in the south-east of England.

Temperature highest, (1) 53° at Sanguinaire, 52° at Malta, 51° at Brindisi, and 49° at Barcelona; (2) 50° at Corunna and 47° at Bilbao; (3) 48° at Stornoway, Wick, and Aberdeen, and 47° at Nairn. Lowest, −3° Fahr. at Haparanda, +8° at Uleaborg, 9° at Moscow, 10° at Archangel, and 15° at Kuopio and Kharkov; below the freezing point in nearly all other parts of Sweden, Russia, and Austria, and as low as 34° at Madrid. Rising during day to between 50° and 56° over the northern parts of Great Britain, but remaining below 45° at some of our south-eastern stations. Exceeding 60° in many parts of southern Europe and Algeria, the highest reading of all being 66° at Biskra.

Wind Westerly or North-Westerly in the northern and eastern parts of Great Britain, Norway, the North Sea, Denmark, Germany, Austria, and the south of Russia; light or moderate in force generally, but strong on the eastern shores of the North Sea. Light from the Northward in the south of our Islands and from the North-Eastward over France and Spain. Moderate from the Northward in Italy and from North-West in Tunis; Southerly or South-Easterly in Algeria. Subsequently veering to the Northward in the north of Scotland. Increasing to a gale from the North-Westward over Scandinavia, Denmark, and the Baltic.

Barometer highest, 30·6 ins. and upwards in the south of Ireland; 30·3 ins. in a large anticyclone covering nearly the whole of our Islands, the Netherlands, France, and Spain. Lowest, 29·4 ins. and less in a large depression of irregular form lying over Scandinavia; 29·8 ins. and less in a shallow system lying over the south of Russia; 29·9 ins. and less in another shallow disturbance lying to the southward of Italy. Depression over Scandinavia subsequently travelling south-eastwards to the Baltic Provinces and becoming much deeper. Anticyclone over Ireland spreading northwards.

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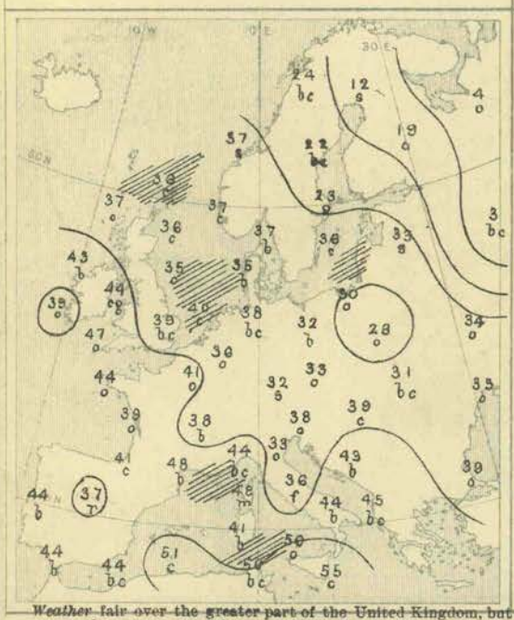
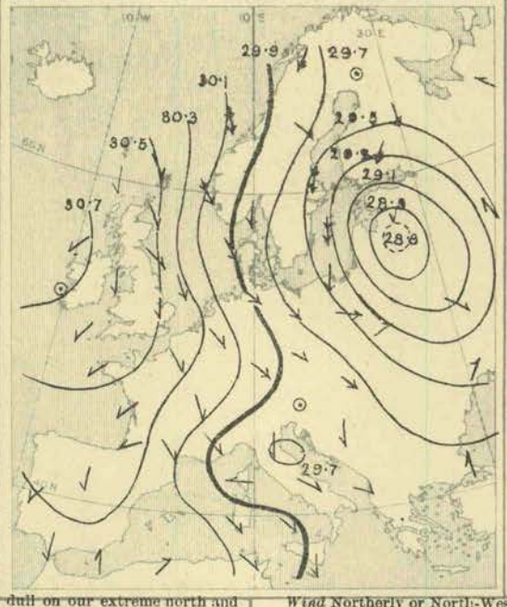
III.—SUMMARY OF WEATHER OVER EUROPE.

Saturday, 13th February.

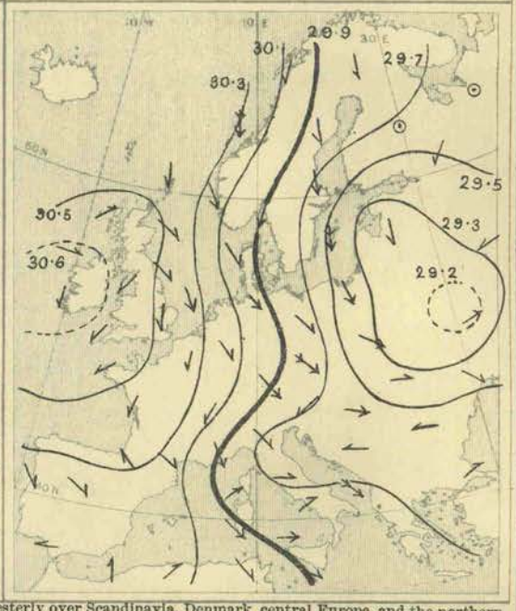
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather fair over the greater part of the United Kingdom, but dull on our extreme north and north-west coasts, with rain at Malin Head. Fine and bright in Denmark, Holland, and most of the southern countries, but cloudy and changeable over northern, eastern, and central Europe, with snow in places. Slight rain falling later in the west and north of our Islands generally; no important change occurring elsewhere.

Temperature highest, 55° at Malta, 52° at Oporto, 51° at Algiers, and 50° at Barcelona, Palermo, and La Calle; above 45° at most of the Mediterranean stations, as well as in the extreme south-west of England. Lowest, 3° at Uleaborg and Moscow, 4° at Archangel, 12° at Haparanda, 19° at Kuopio, and 22° at Hernösand; below the freezing point in most parts of Sweden and Russia, and below 40° over northern, eastern, and central Europe generally, as well as over the northern parts of Great Britain. Daily maxima below 45° at most of our own stations, and below 40° in some parts of Scotland. Thermometer exceeding 50° in Italy and the south of France, and exceeding 60° in Spain and Algeria, the highest reading of all being 63° at Barcelona, San Fernando, Algiers, and Laghouat.

Wind Northerly or North-Westerly over Scandinavia, Denmark, central Europe, and the northern and eastern parts of the United Kingdom; light or moderate in force generally, but strong to a gale over the Baltic. Westerly over Poland, South-Westerly in the south of Russia, Southerly or South-Easterly over central Russia. Light or moderate from the North-Eastward over Spain and the west of France; variable in Italy and Algeria. Subsequently backing to the Westward or South-Westward in the extreme north-west of our Islands; North-Westerly gales setting in at some of the German stations.

Barometer highest, 30·7 ins. and upwards in an anticyclone extending from the Atlantic over the west of Ireland. Lowest, 28·8 ins. and less in a well-marked depression lying over the Baltic Provinces; gradients steep over Poland and the Baltic. Depression subsequently moving slowly south-eastwards. Anticyclone over our Islands beginning to give way, and shallow disturbance approaching our extreme north-west coasts.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟿ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During the greater part of the week the western and central countries of Europe were under the influence of a large anticyclone, which spread in from the Atlantic, and which eventually extended as far eastwards as the south of Russia. Large depressions were at the same time travelling across the northern parts of Scandinavia, while smaller disturbances were observed over the Mediterranean, the movements of the latter systems being attended by heavy falls of rain in Italy and Algeria. On the 12th and 13th, however, a depression—shallow at first, but of increasing depth—advanced over Scandinavia from the northwards, and subsequently travelled in a south-south-easterly direction across Sweden and the Baltic to the west and south of Russia. The eastern portion of the anticyclone therefore gave way, and strong winds or gales from the North-Westward and Northward set in over a considerable part of northern and central Europe, with snow in many places. Over the United Kingdom and France the weather was not materially affected, but at the close of the week there were indications of the advance of a secondary depression towards the north of Scotland.

BRIGHT SUNSHINE Values for the Week in addition to those found on page 32.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	23·1	?	37	?	EASTBOURNE	6·1	?	9	?
OSWALDKIRK (Yorkshire)	31·5	?	48	?	TENBY	12·3*	?	19*	?
WORKSOP	24·4	+11·4	37	+17	NEWQUAY	13·0	?	19	?
THURCASTON (Leicestershire)	24·0	+12·0	36	+18	TORQUAY	16·2*	?	24*	?
MARGATE	9·5	?	14	?	ARLEY COTTAGE (County Cavan)	4·7	?	7	?
BRIGHTON	12·1	?	18	?	GUERNSEY				

* The values at Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.
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VOL. IX. No. 7.] *Third Series.* WEEK ENDING SATURDAY, 20TH FEBRUARY, 1892. [*Price 6d.* [*Annual subscription, post paid.* £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years' observations (1871–90). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the ten years 1881-90. RAINFALL.—*The Mean amounts* are those for the corresponding periods in the twenty-five years 1856–90, but the *Mean numbers of Rainy Days* are those for the ten years 1881-90, only. BRIGHT SUNSHINE.—*The Mean values* employed are those for the corresponding periods in the ten years 1881–90.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

DISTRICTS. (See p. 38.)	Observed during the Week. Highest.	Observed during the Week. Lowest.	Averages of Daily Maxima.	Averages of Daily Minima.	Averages of Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	For the Week. Difference from Mean.	For the Week. Below 42°	For the Week. Difference from Mean.	From January 3rd, 1892. Above 42°	From January 3rd, 1892. Difference from Mean.	From January 3rd, 1892. Below 42°	From January 3rd, 1892. Difference from Mean.
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts. 0. SCOTLAND, NORTH	45	3	34·9	22·7	28·8	9 below.	0	− 5	92	+58	43	− 1	332	+ 97
1. SCOTLAND, EAST	45	−2	35·5	22·2	28·9	9 below.	0	− 9	92	+56	57	+ 1	357	+ 87
2. ENGLAND, N.E.	43	4	35·6	23·5	29·5	10 below.	0	− 9	88	+58	56	+ 6	324	+ 81
3. ENGLAND, EAST	43	9	35·4	22·7	29·1	10 below.	0	−11	90	+56	50	− 6	366	+ 89
4. MIDLAND COUNTIES	44	0	35·5	20·9	28·2	11 below.	0	−12	97	+65	66	− 1	363	+ 93
5. ENGLAND, SOUTH	47	18	37·9	26·5	32·2	8 below.	0	−15	69	+44	71	−10	260	+ 53
Principal Grazing, &c., Districts. 6. SCOTLAND, WEST	46	6	36·6	25·7	31·2	9 below.	0	− 9	76	+51	60	− 8	265	+ 71
7. ENGLAND, N.W.	45	−2	36·1	26·0	31·1	9 below.	0	− 9	76	+50	43	−18	262	+ 65
8. ENGLAND, S.W.	48	11	40·1	29·1	34·6	7 below.	0	−17	52	+32	81	−29	208	+ 62
9. IRELAND, NORTH	49	14	38·7	29·6	34·2	7 below.	0	−14	55	+32	63	−32	222	+ 51
10. IRELAND, SOUTH	51	19	40·2	30·6	35·4	8 below.	0	−21	46	+29	102	−41	188	+ 60
— CHANNEL ISLANDS	49	28	44·1	34·8	39·5	5 below.	6	−16	27	+21	133	−16	82	+ 20

Rainfall.

DISTRICTS. (See p. 38.)	For the Week. Number of Rainy Days.	For the Week. Total Fall.	For the Week. More or less than the Mean for the Week.	From January 3rd, 1892. Number of Rainy Days.	From January 3rd, 1892. Difference from Mean.	From January 3rd, 1892. Total Fall.	From January 3rd, 1892. Difference from Mean.
		10ths of In.	10ths of In.			Ins.	Ins.
Principal Wheat-producing Districts. 0. SCOTLAND, NORTH	6	6	5 less.	42	+ 6	9·0	+ 0·6
1. SCOTLAND, EAST	5	8	2 more.	28	+ 1	3·6	− 0·8
2. ENGLAND, N.E.	6	10	6 more.	26	+ 1	2·6	− 0·4
3. ENGLAND, EAST	6	8	4 more.	28	+ 2	2·2	− 0·9
4. MIDLAND COUNTIES	5	10	4 more.	28	+ 2	2·9	− 0·9
5. ENGLAND, SOUTH	5	6	1 more.	25	− 1	2·1	− 2·0
Principal Grazing, &c., Districts. 6. SCOTLAND, WEST	4	4	7 less.	35	+ 3	7·0	− 1·9
7. ENGLAND, N.W.	4	7	1 more.	31	+ 2	5·0	+ 0·2
8. ENGLAND S.W.	6	11	3 more.	33	+ 3	4·5	− 1·3
9. IRELAND, NORTH	4	6	1 less.	35	+ 2	4·8	− 0·5
10. IRELAND, SOUTH	5	13	5 more.	31	0	5·2	− 1·2
— CHANNEL ISLANDS	7	21	14 more.	38	+ 5	5·1	− 0·1

Bright Sunshine.

DISTRICTS. (See p. 38.)	For the Week. Hours recorded.	For the Week. Difference from Mean.	For the Week. Percentage of possible Duration.	For the Week. Difference from Mean.	From January 3rd, 1892. Hours recorded.	From January 3rd, 1892. Difference from Mean.	From January 3rd, 1892. Percentage of possible Duration.	From January 3rd, 1892. Difference from Mean.
Principal Wheat-producing Districts. 0. SCOTLAND, NORTH	20	+ 2	30	+ 3	58	+ 1	15	0
1. SCOTLAND, EAST	18	+ 8	27	+14	90	− 3	23	− 1
2. ENGLAND, N.E.	14	0	21	− 1	95	+25	23	+ 6
3. ENGLAND, EAST	20	+ 4	30	+ 5	98	+ 5	23	+ 1
4. MIDLAND COUNTIES	18	+ 3	27	+ 4	95	+16	22	+ 3
5. ENGLAND, SOUTH	19	+ 3	28	+ 5	93	+15	21	+ 3
Principal Grazing, &c., Districts. 6. SCOTLAND, WEST	20	+ 4	29	+ 4	86	+17	21	+ 4
7. ENGLAND, N.W.	16	0	24	0	83	+11	20	+ 3
8. ENGLAND S.W.	17	− 1	25	− 4	106	+14	24	+ 2
9. IRELAND, NORTH	18	+ 6	27	+ 8	73	− 9	18	− 2
10. IRELAND, SOUTH	18	0	26	− 3	85	−13	20	− 3
— CHANNEL ISLANDS	18	− 5	26	− 6	74	−48	17	−11

Bright Sunshine.—For several of the stations there are no "mean" values available, and the "difference from the mean" in some of the districts is consequently that of only a few of the stations.

General Remarks.

Weather during this period was extremely wintry and unsettled in all parts of our Islands. Heavy falls of sleet or snow, accompanied by strong squally winds, occurred from time to time in nearly all districts, the amount experienced over our south-western counties on the 18th being unusually large.

Temperature was much below the mean, the deficit ranging from 5° in the Channel Islands and 7° in England S.W. and Ireland N., to 9° or 10° in most other districts, and to 11° in the Midland Counties. The highest of the maxima occurred at most stations on the 14th, and ranged from 51° in Ireland S. to 43° in England N.E. and E. During the middle part of the week the daily maxima were but little above the freezing point, excepting in the extreme west and south-west. The absolute minima were recorded on somewhat varying dates between the 17th and 20th, and were exceedingly low. In Scotland E. (at Braemar on the 19th and 20th) and in England N.W. (at Newton Reigny on the 19th) the sheltered thermometer fell to 2° below zero, while in the Midland Counties (at Loughborough on the 17th, and at Stamford on the 17th and 19th) it descended to zero. A thermometer exposed on the grass at Newton Reigny registered 11° below zero. In the other districts the minima varied from 3° in Scotland N., 4° in England N.E., and 6° in Scotland W., to 18° in England S., 19° in Ireland S., and to 28° in the Channel Islands. At the close of the week temperature was recovering.

Rainfall was less than the mean in Scotland N. and W., as well as in Ireland N., but more in all other districts. In the Channel Islands the excess was very large, and rather so in most parts of England and in Ireland S.

Bright Sunshine was more prevalent over the Kingdom generally than it was during the preceding week, and in most districts exceeded the normal. The percentage of the possible duration varied from 30 in Scotland N. and England E. to 21 in England N.E.

Barometer and Wind.—During the earlier days of the period a rather shallow depression travelled in a south-south-easterly direction over Great Britain, the barometer in its rear rose considerably, and fresh Easterly to North-Easterly winds set in over the entire Kingdom. In the latter part of the week depressions appeared both in the extreme south-west and south-east of our Islands, causing strong Easterly winds and gales on all the more exposed parts of our coasts. The gale experienced over the north of Ireland on the night of the 20th was unusually severe.

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II.—DATA from which the SUMMARY on page 37 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°		°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	38	22	33·6	26·7	30·2	− 8·3	0	83	7	0·26	−0·53	*	*	*	*
	Stornoway	44	12	35·0	24·6	29·8	− 9·3	0	85	7	0·68	−0·30	17·8	+ 1·9	27	+ 3
	Wick	39	19	37·1	25·9	31·5	− 6·6	0	74	6	0·86	+0·34	*	*	*	*
	Lairg ℌ	41	3	35·0	13·5	25·3	−11·5	0	117	7	1·01	+0·26	*	*	*	*
	Glencarron ℌ	42	11	33·3	20·3	26·8	−10·6	0	106	6	0·69	−0·91	*	*	*	*
	Fort Augustus ℌ	44	8	35·0	21·3	28·2	−10·4	0	97	5	0·37	−0·55	19·6	?	30	?
	Fort William ℌ	45	13	35·4	24·5	30·0	− 9·3	0	84	3	0·14	−1·79	21·6	?	33	?
1. SCOTLAND, E.	Nairn	43	6	35·1	23·7	29·4	− 9·1	0	88	7	0·95	+0·57	*	*	*	*
	Aberdeen	39	16	35·0	25·1	30·1	− 8·6	0	83	6	0·52	−0·08	25·7	+ 8·1	39	+14
	Braemar ℌ	39	− 2	30·4	16·4	23·4	−11·8	0	130	?	?	?	15·0†	?†	23†	?†
	Ochtertyre ℌ	42	13	38·4	21·4	29·9	− 7·6	0	85	3	0·44	−0·47	*	*	*	*
	Leith	45	17	38·3	25·0	31·7	− 8·4	0	72	5	0·83	+0·48	*	*	*	*
	Marchmont ℌ	42	10	35·7	21·4	28·6	− 9·1	0	94	6	1·15	+0·57	19·5	?	29	?
2. ENGLAND, N.E.	Alnwick Castle	43	10	35·1	23·7	2·.4	− 9·1	0	88	6	1·31	+0·79	*	*	*	*
	Durham	41	4	35·2	20·4	27·8	−10·4	0	99	7	1·23	+0·82	13·0	− 2·7	19	− 5
	Shields	41	12	36·7	23·1	29·9	− 9·8	0	85	6	0·92	+0·53	*	*	*	*
	Scarborough ℌ	38	10	34·4	25·1	29·8	−10·1	0	85	6	1·24	+0·80	*	*	*	*
	York	43	7	36·3	20·1	28·2	−11·2	0	97	7	0·80	+0·38	17·0	+ 3·0	25	+ 4
	Spurn Head	40	24	35·7	28·4	32·1	− 7·0	0	69	6	0·58	+0·25	*	*	*	*
3. ENGLAND, E.	Hillington ℌ	40	9	36·0	20·7	28·4	−10·6	0	95	7	0·91	+0·46	19·5	+ 2·8	28	+ 3
	Yarmouth	38	19	33·7	26·0	29·9	− 8·7	0	85	6	0·66	+0·21	*	*	*	*
	Geldeston	40	11	35·9	23·8	29·9	− 9·6	0	85	6	0·41	+0·01	21·8	+ 3·8	32	+ 6
	Cambridge	43	13	36·4	20·4	28·4	−11·1	0	95	6	1·45	+1·07	20·7	+ 3·8	30	+ 6
	Rothamsted	40	11	35·1	22·6	28·9	− 9·9	0	92	5	0·52	+0·01	19·0	?	28	?
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	43	17	36·1	25·3	30·7	− 9·0	0	79	5	1·15	+0·76	*	*	*	*
	Loughborough	43	0	35·9	15·0	25·5	−14·3	0	116	6	1·17	+0·74	*	*	*	*
	Stamford (Ketton Hall)	42	0	34·9	16·4	25·7	−14·3	0	114	6	1·83	+1·42	*	*	*	*
	Cheadle ℌ	41	14	34·0	21·4	27·7	−10·4	0	100	5	0·76	+0·14	*	*	*	*
	Churchstoke ℌ	43	13	34·9	20·3	27·6	−11·5	0	101	5	0·53	−0·08	13·5	− 1·8	20	− 4
	Hereford ℌ	44	14	36·9	25·8	30·4	−10·0	0	81	6	0·74	+0·24	*	*	*	*
	Cirencester	42	14	34·9	20·7	27·8	−11·2	0	99	6	1·05	+0·44	20·7	+ 2·7	30	+ 4
	Oxford	42	17	36·7	23·9	30·3	− 9·8	0	82	4	0·34	−0·14	21·2	+ 5·2	31	+ 9
5. ENGLAND, S.	London	43	21	37·4	26·3	31·9	− 8·8	0	71	5	0·65	+0·25	11·4†	+ 0·5†	17†	+ 2†
	North Foreland	41	25	35·9	29·0	32·5	− 7·9	0	67	5	0·59	?	*	*	*	*
	Strathfield Turgiss ℌ	43	18	37·2	24·7	31·0	− 9·0	0	77	6	0·52	+0·02	*	*	*	*
	Dungeness	45	20	38·3	25·6	32·0	− 8·5	0	70	5	0·52	+0·04	*	*	*	*
	Hastings (St. Leonards)	42	19	36·8	25·6	31·2	− 9·6	0	76	6	0·80	+0·29	22·4	+ 1·4	32	+ 3
	Southampton	47	20	39·8	27·0	33·4	− 7·9	0	60	5	0·49	−0·11	23·7	+ 5·9	34	+ 9
	Hurst Castle	46	20	40·3	28·4	34·4	− 6·9	0	53	6	0·53	−0·03	*	*	*	*
	Stowell ℌ	43	19	37·5	25·2	31·4	− 8·1	0	74	5	0·70	?	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	46	17	37·3	25·0	31·2	− 9·2	0	76	3	0·18	−1·62	*	*	*	*
	Glasgow	45	15	36·9	26·9	31·9	− 7·4	0	71	4	0·73	−0·07	19·7	+ 6·9	29	+11
	Ardrossan	46	16	37·6	26·6	32·1	− 8·6	0	69	3	0·15	−0·57	*	*	*	*
	Glenlee ℌ	43	6	34·2	20·7	27·5	−10·9	0	102	3	0·26	−0·88	*	*	*	*
	Douglas (Isle of Man)	45	22	37·1	29·1	33·1	− 7·8	0	62	5	0·44	−0·39	19·3	+ 1·3	28	+ 2
7. ENGLAND, N.W.	Newton Reigny	43	− 2	33·5	16·5	25·0	−12·5	0	119	5	0·63	−0·05	14·8	− 0·2	22	0
	Stonyhurst	42	13	34·6	23·8	29·2	−10·0	0	90	4	1·04	+0·19	17·5	+1·6	26	+ 4
	Blackpool ℌ	45	18	37·6	27·5	32·6	− 7·3	0	66	4	0·53	−0·05	17·4	+ 1·5	26	+ 3
	Manchester	42	20	35·2	24·9	30·1	− 9·0	0	83	5	0·88	+0·34	*	*	*	*
	Liverpool Obsy. (Bidston)	43	21	35·6	28·1	31·9	− 8·8	0	71	4	0·73	+0·31	*	*	*	*
	Llandudno ℌ	44	23	37·7	29·2	33·5	− 8·5	0	60	4	0·62	+0·10	14·8	− 2·0	21	− 3
	Holyhead	45	27	38·7	31·9	35·3	− 6·9	0	47	5	0·33	−0·31	*	*	*	*
8. ENGLAND, S.W.	Llandovery	44	11	37·7	21·9	29·8	−11·7	0	85	7	0·86	−0·14	*	*	*	*
	Pembroke	46	25	39·9	31·0	35·5	− 7·0	0	46	6	0·63	−0·07	18·5	− 1·5	27	− 1
	Arlington (N. Devon)	43	18	37·1	26·6	31·9	− 8·1	0	71	5	1·14	+0·10	*	*	*	*
	Cullompton ℌ	45	19	38·3	27·0	32·7	− 8·2	0	65	5	1·10	+0·36	20·9	+ 3·4	30	+ 6
	Falmouth	47	24	43·5	33·6	38·6	− 4·7	4	31	6	2·06	+1·08	17·9	− 3·3	26	− 2
	Plymouth	46	23	41·9	32·4	37·2	− 5·7	0	34	6	1·75	+1·04	16·4	− 3·5	23	− 5
	Prawle Point	48	21	42·4	31·0	36·7	− 5·8	1	39	5	0·43	−0·07	*	*	*	*
9. IRELAND, N.	Malin Head	45	25	37·9	32·1	35·0	− 7·4	0	49	4	0·41	?	*	*	*	*
	Londonderry	46	17	40·0	27·8	33·9	− 8·7	0	57	5	0·88	+0·20	*	*	*	*
	Mullaghmore	46	26	39·1	32·6	35·9	− 6·7	0	43	4	0·45	−0·31	*	*	*	*
	Belmullet	47	28	40·0	33·0	36·5	− 5·8	0	39	6	1·06	?	*	*	*	*
	Markree Castle	49	20	38·4	26·9	32·7	− 8·2	0	65	5	0·64	−0·05	24·6	+ 8·3	36	+13
	Brookeborough	45	17	37·4	26·0	31·7	− 8·3	0	72	4	0·93	+0·18	*	*	*	*
	Armagh	46	14	37·1	26·3	31·7	− 8·5	0	72	4	0·32	−0·26	18·3	+ 2·7	27	+ 5
	Donaghadee	48	29	38·7	33·1	35·9	− 5·3	0	43	4	0·39	−0·21	*	*	*	*
	Edgeworthstown	45	26	39·9	28·9	34·4	− 5·6	0	53	3	0·31	−0·38	*	*	*	*
10. IRELAND, S.	Dublin	49	26	38·9	31·3	35·1	− 7·6	0	48	7	0·94	+0·42	13·2	− 4·7	19	− 6
	Parsonstown	48	23	38·9	29·3	34·1	− 7·3	0	55	4	0·87	+0·32	16·1	− 1·4	23	− 2
	Kilkenny	47	24	37·9	30·4	34·2	− 8·2	0	55	6	1·41	+0·75	*	*	*	*
	Waterford	49	21	39·1	30·2	34·7	− 9·0	0	51	4	1·63	+0··7	*	*	*	*
	Roche's Point	51	27	42·3	32·3	37·3	− 6·7	1	34	7	2·29	+1·21	*	*	*	*
	Valencia	49	28	42·4	32·7	37·6	− 7·6	1	33	6	0·63	−0·55	24·7	+ 5·7	36	+ 8
	Killarney	49	19	40·8	28·0	34·4	−10·0	0	53	5	1·17	?	*	*	*	*
	Foynes	47	27	40·9	30·8	35·9	− 7·4	0	43	4	1·32	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	47	31	44·0	36·3	40·2	− 5·7	6	22	6	3·34	+2·68	*	*	*	*
	Jersey	49	28	41·1	33·3	38·7	− 4·4	6	32	7	0·82	+0·19	15·3	− 4·5	26	− 6

Stations marked ℌ are in connection with the Royal Meteorological Society, and those marked ℑ with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

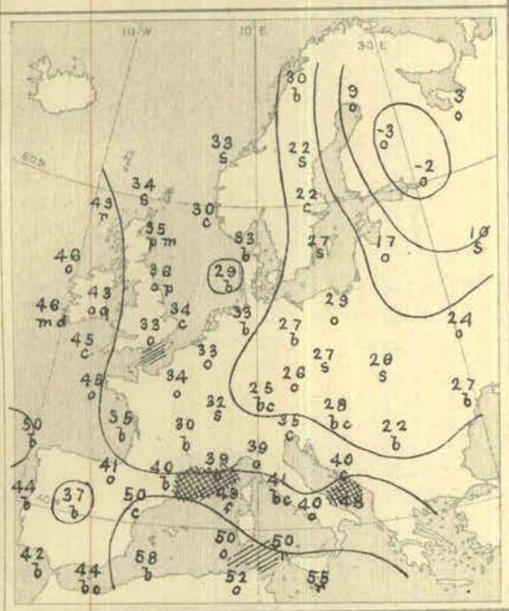
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory and the Meteorological Office, Victoria Street. For additional Reports of Sunshine see last page.

III.—SUMMARY OF WEATHER OVER EUROPE.

Sunday, 14th February.

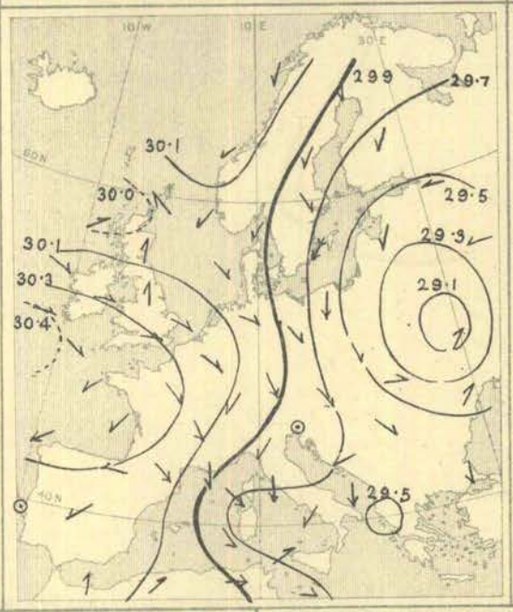
Temperature and Weather.

8 a.m.

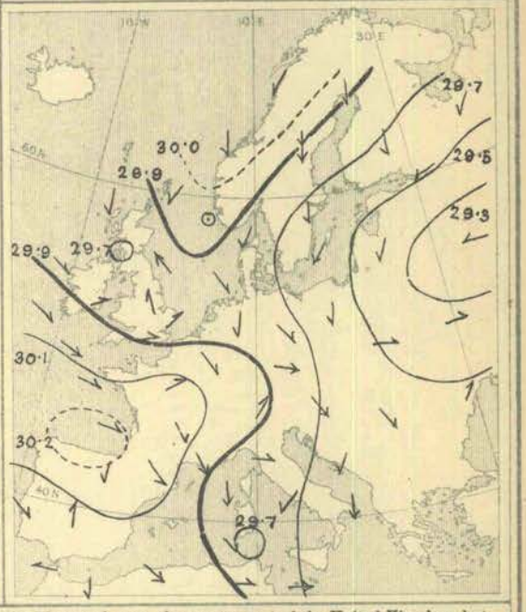


Barometer and Wind.

8 a.m.



6 p.m.



Weather dull and unsettled over the greater part of the United Kingdom, with rain or sleet in many places. Dull also over northern and eastern Europe, with snow at many of the Scandinavian and Russian stations; rainy in the south of Italy. Fine over Denmark, Holland, Germany, Spain, the south of France, and the north of Italy. Considerable amounts of rain or snow falling later in the north and east of Great Britain, as well as in the Netherlands and the north and west of France; showers in some parts of central Europe and Sweden.

Temperature highest, (1) 55° at Algiers and Malta, 59° at La Calle and Tunis, and 50° at Corunna, Barcelona, Cagliari, and Palermo; (2) 46° at Belmullet and Valencia, and 45° at Mullaghmore, Scilly, and Brest. Lowest, −3° Fahr. at Knoplo, −2° at St. Petersburg, +3° at Archangel, 9° at Uleaborg, and 10° at Moscow; below the freezing point in nearly all parts of northern, eastern, and central Europe, and also in the extreme south-east of England; very little above 32° over our eastern and midland counties. Daily maxima below 45° in many parts of Great Britain and below 40° at some of the eastern stations. Thermometer exceeding 45° in the west and south of France, reaching 59° at Lisbon, and exceeding 60° in several parts of Algeria (70° at Biskra).

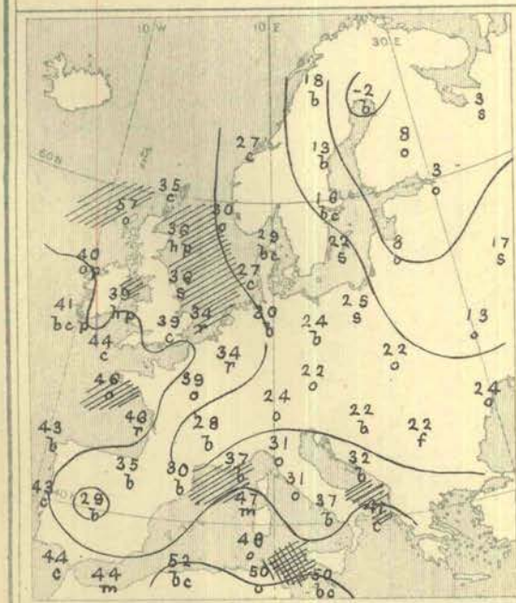
Wind light or moderate from the Westward over the greater part of the United Kingdom, but Southerly in the east of Scotland and the north-east of England. Moderate from the Northward in most parts of northern Europe, but strong to a gale at Wisby; strong from the North-Westward at several of the German and Austrian stations, and from the Northward over Italy. Light or moderate from the North-Eastward over Spain and the west of France, Southerly in Algeria. Cyclonic circulation of light or moderate breezes appearing later over the northern parts of the United Kingdom, and moving South-Eastwards over Great Britain.

Barometer highest, 30·3 ins. to 30·4 ins. in an anticyclone extending from the Atlantic over the south-west of our Islands, the Bay of Biscay, and the greater part of France. Lowest, 29·1 ins. and less in a well-marked depression lying over western Russia; 30·0 ins. and less in a shallow system lying to the north-west of Scotland. Latter disturbance subsequently moving south-eastwards over the northern parts of our Islands, and barometer falling quickly over the entire Kingdom. Russian disturbance moving eastwards.

Monday, 15th February.

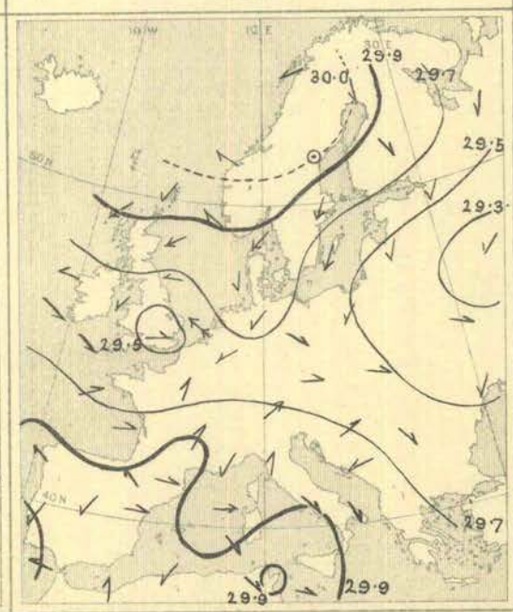
Temperature and Weather.

8 a.m.

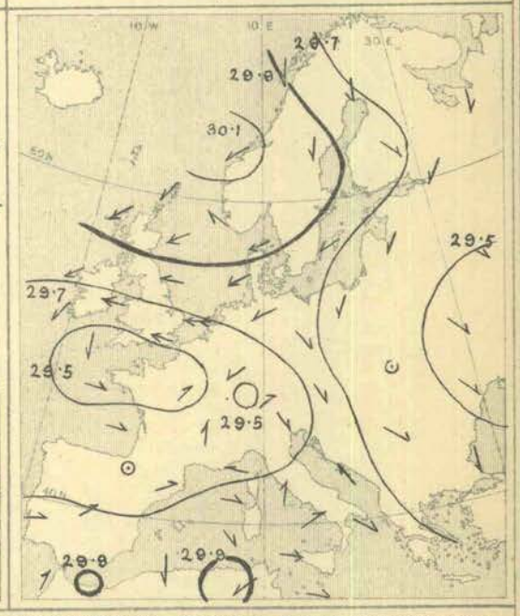


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over Scandinavia, and also over south-western and southern Europe; rough and very unsettled over the British Islands and their neighbourhood, with squalls of wet snow, hail, and cold rain in many northern and eastern districts, and sleet showers in France; dull and unsettled over Russia and Poland, with some snow in several localities. Snow squalls extending to the southern parts of our Islands and the north-west of France later; weather very rough and unsettled generally, with snow locally over central and eastern Europe.

Temperature risen over France and the southern parts of England, fallen elsewhere; morning readings exceeding 50° at very few stations even in Algeria; exceeding 40° on most parts of the Atlantic coasts of France and the shores of the English Channel; below 40° on our north and east coasts, below 30° in Norway, Denmark, and Germany, and as low as −2° Fahr. at Haparanda, +2° to 9° over Finland and northern Russia, 12° at Kharkov, 13° at Kiev, 19° at Warsaw; 28° at Lyons, 31° even at Leghorn and Rome, 32° at Toulon; 29° at Madrid. Falling fast over the south of England and in France later, and hard frost becoming general at inland stations.

Wind (1) North-Easterly, light, over northern Russia; North-North-Easterly, moderate to strong, over the Baltic; Westerly, light, over southern Russia; (2) Easterly, light to a gale, over the northern and eastern parts of our Islands; North-Westerly, light, in the south-west and south; Westerly, moderate to strong, over France; South-Westerly over Germany; (3) small cyclonic circulation of fresh winds over northern part of the Mediterranean. Strong Easterly winds spreading to the southern counties of England later—very squally and keen.

Barometer highest, 30·0 ins. and more to 29·9 ins. over Spain, Algeria, and the southern parts of the Mediterranean; also over Scandinavia, the Gulf of Bothnia, the Shetland Islands, and extreme north of Scotland. Lowest, 29·3 ins. and less in a large but shallow depression over central Russia, and 29·5 ins. and less in a complex disturbance lying over our Islands, Belgium, and the north-east of France. Latter disturbance moving south-westwards later, and gradients for Easterly winds spreading all over our Islands. New low-pressure system appearing over the Kola Peninsula and Lapland.

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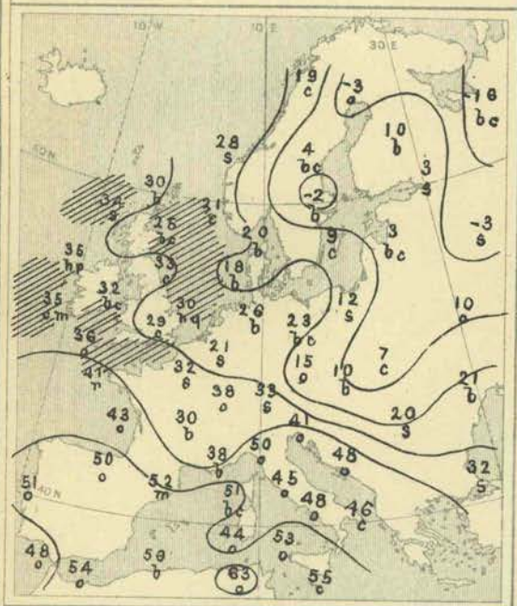
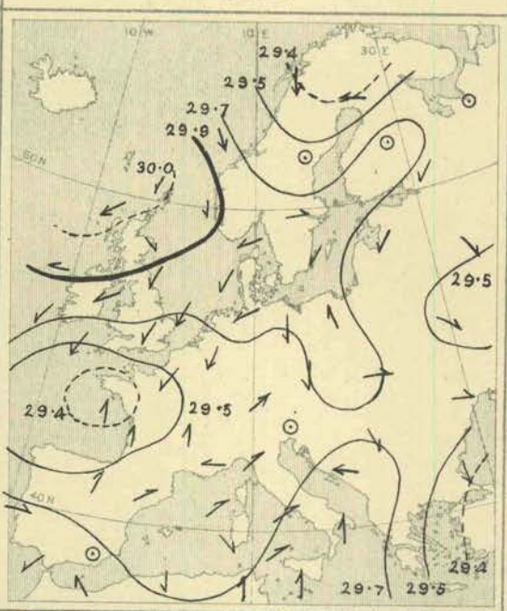
III.—SUMMARY OF WEATHER OVER EUROPE.

Tuesday, 16th February.

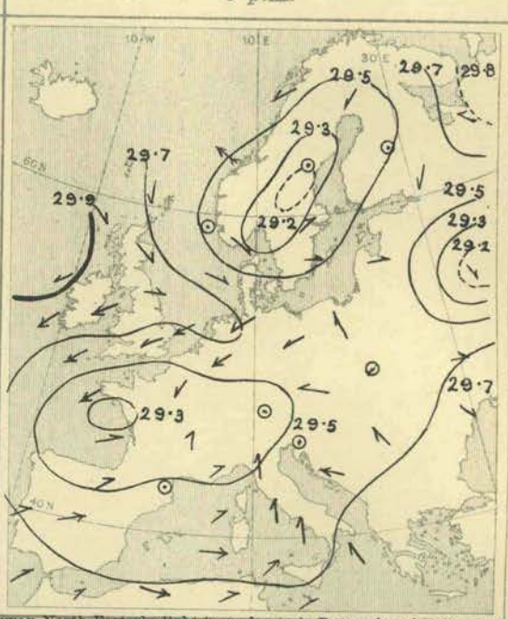
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over Algeria, the south of France, and (temporarily) in many parts of Ireland and England; cloudy and unsettled elsewhere, with snow showers in many places. General condition changeable and unsettled. Rain and snow later in considerable quantity in various parts of France, and in smaller amounts over Germany, Ireland, Scotland, and central and northern Europe.

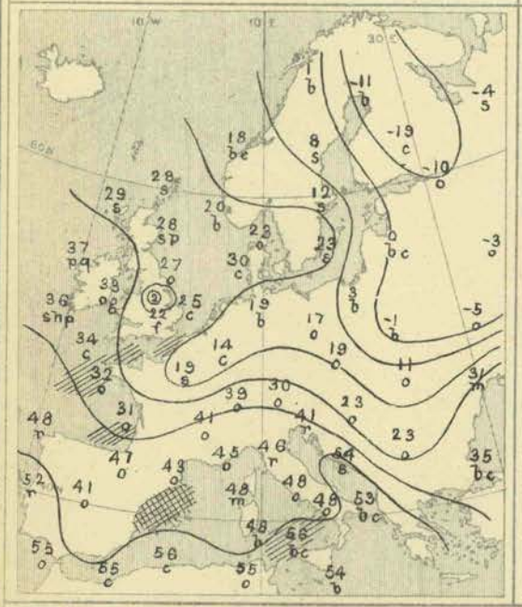
Temperature falling decidedly over the British Islands and north-western Europe, and low for the time of year in nearly all districts. Morning readings exceeding 50° at some Mediterranean stations and at Lisbon, and exceeding 40° in the west of France and on the shores of the Adriatic, much lower elsewhere. Below the freezing point over the British Islands, below 20° in many parts of Germany and Russia, and as low as −16° Fahr. at Archangel, −5° at Uleaborg, −3° at Haparanda and Moscow, −2° at Stockholm, +7° at Warsaw and Lemberg. Falling to reach 40° over the greater part of the British Islands, the Netherlands, and north-east of France during the day, but touching 54° at Nice, 57° at Biarritz, and 59° at Lisbon, Brindisi, and Malta, 63° at Palermo, and 65° in some parts of Algeria.

Wind Northerly, fresh, over Norway, North-Easterly, light to moderate, in Denmark and Holland, and North-Easterly to Easterly, moderate to a gale, over the United Kingdom and English Channel. Light and extremely variable over south-western and central Europe, North-Westerly in the south of Russia, but chiefly Southerly over Italy, Sicily, Malta, and Tunis. North-Easterly wind continuing strong over Ireland, England, and the Channel during day, but backing to North-West in Scotland, and a Northerly gale setting in on the Norwegian coast. Easterly gale increasing in the Channel later, and Southerly wind setting in over the Mediterranean and south of France.

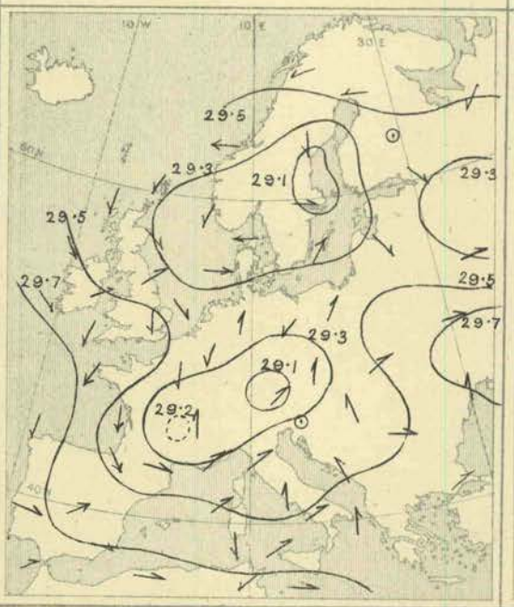
Barometer highest, (1) 30·0 ins. and more to 29·7 ins. over nearly the whole of the British Islands, the North Sea, Germany, Denmark, the south of Scandinavia, and the Baltic; (2) exceeding 29·7 ins. over the southern parts of Spain, Algeria, and the south of Italy. Lowest, (1) 29·4 ins. and less in a disturbance off the west coast of Brittany and in another over Lapland; (2) 29·5 ins. and less in a third lying over the southern half of Russia. Falling fast over Scandinavia and the north-east of Scotland later as the depression over Lapland moved southwards; falling slightly over France and rising slightly in Ireland.

Wednesday, 17th February.

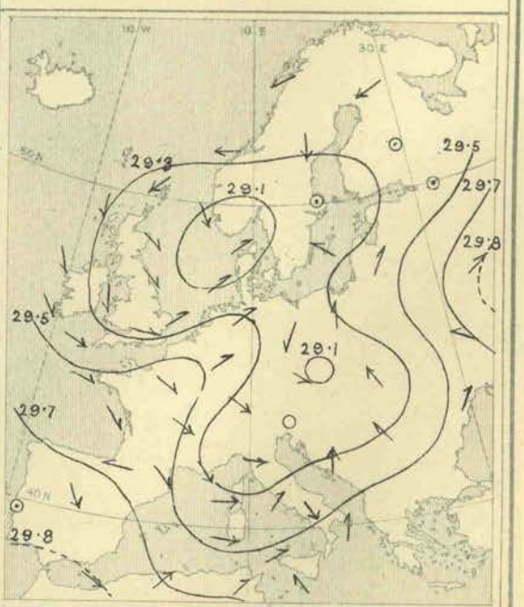
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the extreme north of Europe, over Algeria, and southern Russia; temporarily clear over several parts of our Islands, but in a very changeable condition as a whole; snow in many parts of the United Kingdom and north-western and western Europe, hail at Valencia. Snow in all parts of our Islands later and at many of the Continental stations; rain over the Mediterranean and Italy.

Temperature fallen rapidly over England; morning readings very low over nearly the whole of Europe. Highest values, 50° and more, confined to the southern and western shores of the Mediterranean and the south-western part of Spain. Readings above 40° at the other Mediterranean stations, but below 40° all over our Islands and France, below 20° in many places; below zero Fahr. over Russia and northern Europe, and as low as −19° Fahr. at Knopio, −1° at Warsaw, +2° at Loughborough (Leicestershire), 16° at Cambridge, 17° at Oxford and at Berlin, 19° at Paris, 22° in London. Daily maxima 30° to 33° over the major part of Great Britain, exceeding 40° on our west and south-west coasts, and rising to between 65° and 70° on the southern side of the Mediterranean.

Wind variable—mainly Easterly in the far north, Northerly (North-West to North-East), but very variable, over the United Kingdom and France; South-Westerly over the Mediterranean, Southerly over Germany and Poland. Becoming Westerly over our southern counties later, but more generally Northerly on our northern and western coasts; strong from North-West and West over the Mediterranean and Southerly over Italy and the Adriatic.

Barometer highest, 29·8 ins. and more off the west of Portugal and over Algeria, 29·7 ins. and more over southern Russia, 29·5 ins. and more over Lapland. Lowest, 29·1 ins. and less to 29·2 ins. in a depression over Sweden, Denmark, and the south of Norway, and in another over south Germany and the south-east of France; 29·3 ins. and less over central Russia. Distribution very complex and depressions moving from various directions. Barometer falling throughout our Islands during day, but gradients not becoming steep.

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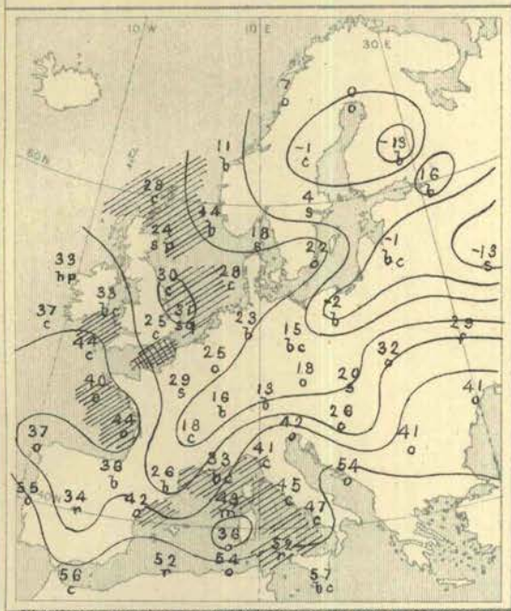
III.—SUMMARY OF WEATHER OVER EUROPE.

Thursday, 18th February.

Temperature and Weather.

8 a.m.

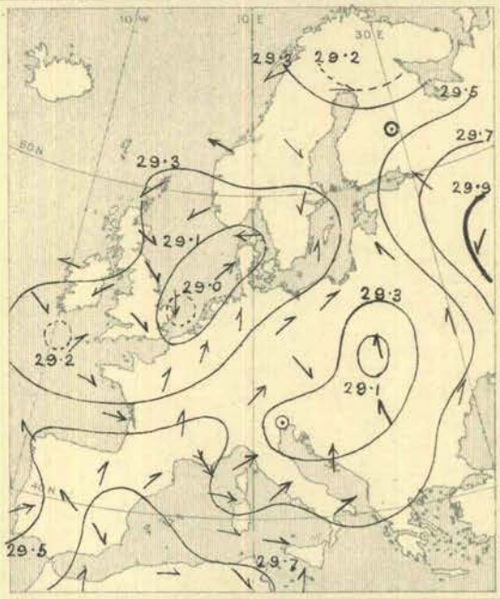


Weather in morning fine and bright over the west of Norway, many parts of the British Islands, the south of France, and at several of the Baltic stations, not at all settled anywhere. Snow and hail showers reported in many places both over western and eastern Europe, and cold rain at Madrid. Considerable falls of snow and sleet in the western parts of France later, and heavy falls in the south-west of England; some showers in the west and north. Very heavy rain in the south of France.

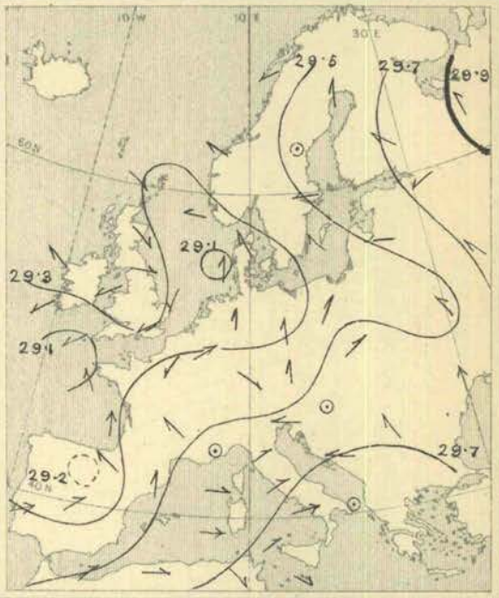
Temperature much less low over England, Finland, and south-eastern Europe, than on the 17th, but much lower in the southern parts of France; still very low over Europe generally. Morning readings exceeding 50° on the southern shores of the Mediterranean and at Lisbon, but below the freezing point over most inland districts, and as low as (1) −13° at Moscow and Kuopio, −2° at Uleaborg and Memel; (2) +9° at Wiesbaden, 13° at Munich, 15° at Berlin, 29° at Paris; (3) 23° at Oxford, 24° at Aberdeen, 25° in London, 30° at Parsonstown. Remaining below 40° over the United Kingdom all day, and below 30° over Germany and many parts of Scotland; not touching 50° in south of France, but exceeding 60° in the south of Italy and 70° to 77° in many parts of Algeria.

Barometer and Wind.

8 a.m.



6 p.m.



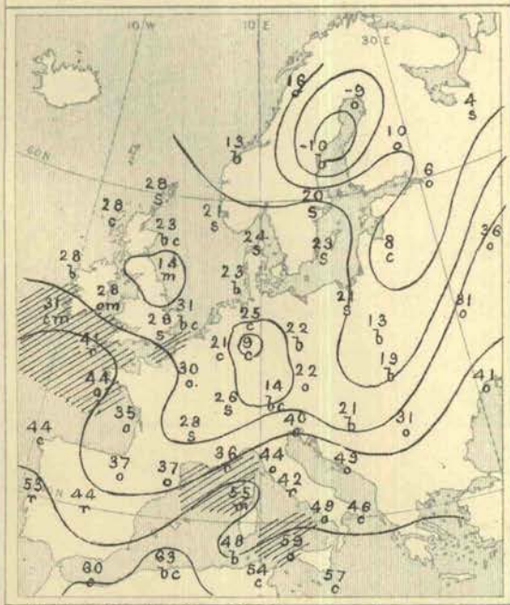
Wind extremely variable; (1) Easterly to Northerly and North-Westerly over the British Islands, Southerly over the Netherlands, Easterly over Norway; (2) mainly Southerly over Russia, variable over central Europe; Westerly (North-West to South-West), strong to a gale, over the Mediterranean, Southerly over the Adriatic. Another cyclonic circulation over Portugal. Shifting to the Eastward on our southern coasts, the Channel, and north of France later, falling light over the Mediterranean, and changing very fitfully elsewhere.

Barometer highest, (1) 30·0 ins. and more to 29·6 ins. over central Russia; (2) 29·7 ins. and more over Algeria and the east of Spain; (3) exceeding 29·3 ins. (*a*) over the north-west of our Islands, (*b*) the northern half of Scandinavia, and (*c*) north Germany. Lowest, (1) below 29·1 ins. in a complex depression over the North Sea, 28·96 ins. at Yarmouth; (2) below 29·2 ins. in another similar system over Hungary and Austria (29·03 ins. at Lemberg); and (3) below 29·2 ins. over Lapland, and below 29·4 ins. over Portugal. Depressions moving irregularly later, and one off our south-west coasts growing deeper. Anticyclone over Russia giving way.

Friday, 19th February.

Temperature and Weather.

8 a.m.

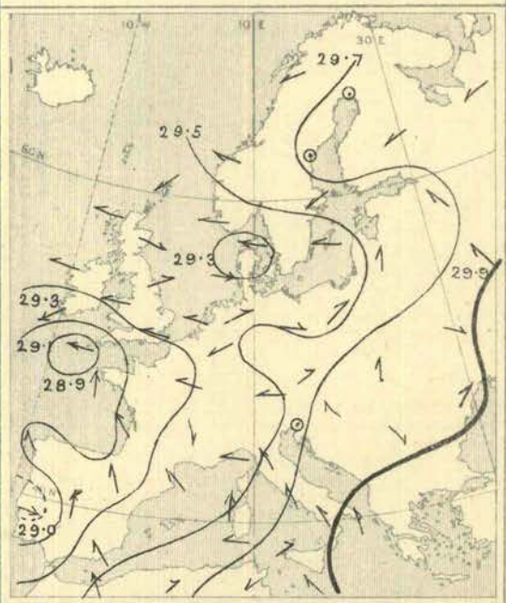


Weather in morning fine and bright over Austria and the north-western parts of our Islands, but very changeable and unsettled as a whole; snow falling in many places, especially over the south-western parts of the British Islands; rain at Scilly, Madrid, Toulon, and Kharkov. Heavy rain in the west and south of France later, and some more snow in the south-west and south of England and in many parts of Ireland and Scotland.

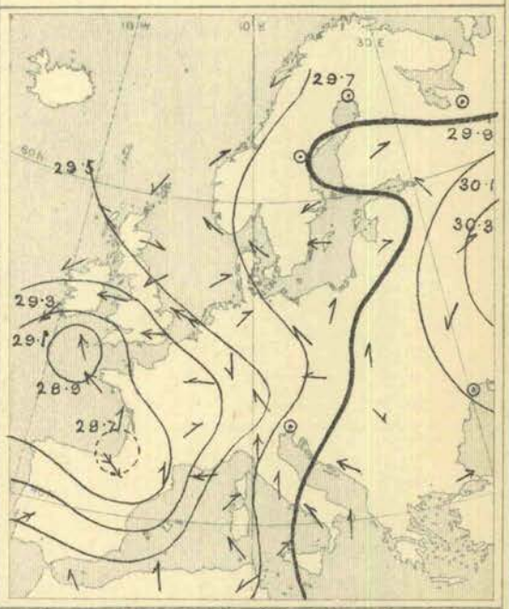
Temperature risen decidedly over southern Europe, and also over many parts of Russia (the rise at Moscow amounting to 49°); fallen elsewhere, and very low over north-western Europe generally. Morning readings, 63° at Algiers, 60° at Nemours, 59° at Palermo, 55° at Barcelona, and 53° at Madrid. Frost holding over central and the inland parts of western Europe; readings reported from individual stations as low as (1) −10° Fahr. at Hernösand, −9° at Haparanda; (2) 8° at Cracow, 13° at Warsaw, 14° at Munich; (3) 11° at York and Loughborough, and 22° at Cambridge. Not touching 40° in any part of our Islands (excepting Prawle Point) later, but exceeding 50° in the west of France, and exceeding 60° over the greater part of southern Europe, the highest reading of all being 73° at Palermo.

Barometer and Wind.

8 a.m.



6 p.m.



Wind mainly Easterly over northern Europe and the British Isles—light at the northern stations, moderate over the greater part of England, but strong over the southern and south-western counties, and blowing a gale in Ireland. Chiefly South-Westerly or Westerly over Germany. Southerly over Spain, extremely variable elsewhere. Small cyclonic circulations in several localities. Increasing to a gale from East over the south-east of England later, and to a strong breeze from the same quarter on our north-west coasts, but veering to the Southward at Scilly.

Barometer highest, 30·0 ins. and more over the south-east of Russia, and exceeding 29·8 ins. over south-eastern Europe generally, as well as over northern Russia and Finland; exceeding 29·4 ins. over the north-west and north of our Islands. Lowest, 28·9 ins. and less in a depression at the mouth of the Channel; 29·0 ins. and less in another over Portugal; 29·3 ins. and less in another over Denmark. Numerous local irregularities found over Germany, France, and the Mediterranean. Rising over northern Europe later, changing irregularly elsewhere. Depression near mouth of Channel remaining almost stationary.

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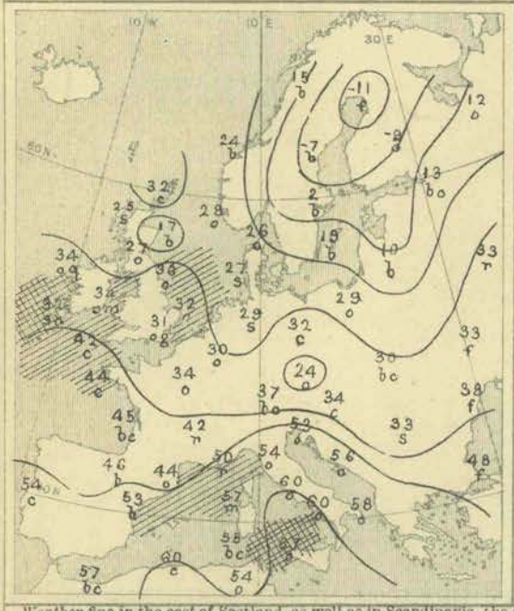
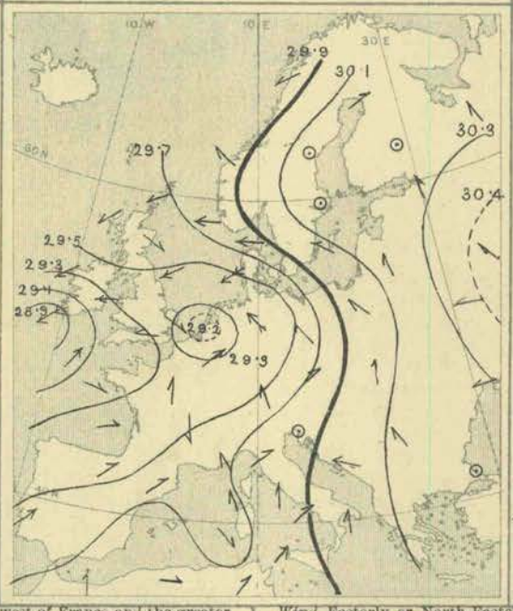
III.—SUMMARY OF WEATHER OVER EUROPE.

Saturday, 20th February.

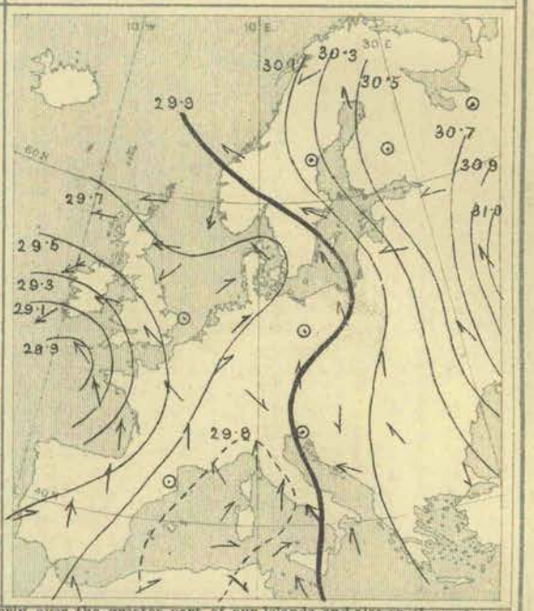
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



6 p.m.



Weather fine in the east of Scotland, as well as in Scandinavia, the west of France, and the greater part of Spain and Algeria. Cloudy or overcast elsewhere, with fog in the south of Russia, rain in the east and south of France, and snow in many parts of England, Ireland, Denmark, and Germany. Heavy rain falling during day in the south-west of our Islands and the west and north of France, as well as over southern Italy; thunderstorm occurring at Lorient, and lightning seen at some of our south-western stations. Snow spreading northwards to Scotland at night.

Temperature highest, 67° at Palermo, 60° at Rome, Naples, and Algiers, and 58° at Brindisi; above 50° at nearly all the Mediterranean and Adriatic stations, as well as on the coasts of the Spanish Peninsula, above 45° in the west of France. Lowest, −11° at Ulleaborg, −9° at Haparanda and Kuopio, −7° at Hernösand, and +2° at Stockholm; considerably below the freezing point over the northern parts of Russia and Scandinavia generally, as well as in Scotland—as low as 16° at Nairn. Decided rise taking place over our Islands during day; thermometer exceeding 45° in the extreme south. Rising above 50° in the west and south of France, above 60° in Spain and Italy, and above 70° in Sicily and Algeria.

Wind Easterly or North-Easterly over the greater part of our Islands, and also on the eastern shores of the North Sea; strong to a gale in force in Ireland, and also in Denmark. Light or moderate from the North-Westward in the south-east of England, from the South-Westward in Spain, France, and Belgium, and from the South-Eastward over Germany, Austria, and a considerable portion of Russia. Moderate to strong from the Southward in Italy. Easterly gale in Ireland increasing later, and becoming very severe at night; wind backing to the Southward in the west of France.

Barometer highest, 30·4 ins. and upwards in an anticyclone lying over Russia. Lowest, 28·9 ins. and less in a deep depression lying off the south of Ireland; 29·2 ins. and less in a shallower disturbance lying over Holland. Depression in south-west subsequently moving slowly westwards, but also tending to spread northwards; disturbance over Holland entirely filling up. Rapid increase of pressure taking place over Russia; barometer at Moscow reaching 31·0 ins.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇛ = a heavy gale; ➤ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

The weather experienced during this week has been of an extremely variable character. At first pressure was highest in two anticyclones, one lying over the Bay of Biscay, Spain, and France, the other over Scandinavia. The former gave way rapidly, while the latter moved south-westwards. Depressions then appeared over most parts of Europe, and the Northerly to Easterly winds which set in over the British Islands brought about a spell of frost of unusual severity for the time of year; in several localities the shaded thermometer went down to some degrees below zero Fahr., and the air was exceedingly keen. Numerous depressions remained over western Europe to the close of the week, the last of them (which was observed off the mouth of the Channel on Saturday night) being deep, and causing severe Easterly gales over the western and northern parts of the Kingdom. With such changes the weather has been, necessarily, very unsettled; snow, sleet, hail, and cold rain have fallen in many places, and in some localities (*e.g.*, the south-west of our Islands and the southern parts of France) the falls have been large.

BRIGHT SUNSHINE Values for the Week in addition to those found on page 38.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	11·5	?	17	?	EASTBOURNE	23·0	?	33	?
OSWALDKIRK (Yorkshire)	12·4	?	18	?	TENBY	20·3*	?	29*	?
WORKSOP	19·2	+ 4·3	28	+ 6	NEWQUAY	14·5	?	21	?
THURCASTON (Leicestershire)	17·0	+ 3·1	25	+ 6	TORQUAY	12·4*	?	18*	?
MARGATE	9·1	?	13	?	ARLEY COTTAGE (County Cavan)	11·7	?	17	?
BRIGHTON	25·3	?	36	?	GUERNSEY				

* The values at Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.
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VOL. IX. No. 8.] *Third Series.* WEEK ENDING SATURDAY, 27TH FEBRUARY, 1892. [*Price 6d.* [*Annual subscription, post paid, £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years' observations (1871-90). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the ten years 1881-90. RAINFALL.—*The Mean amounts* are those for the corresponding periods in the twenty-five years 1866-90, but the *Mean numbers of Rainy Days* are those for the ten years 1881-90, only. BRIGHT SUNSHINE.—*The Mean values* employed are those for the corresponding periods in the ten years 1881-90.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 44.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1892. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	50	19	43·2	31·2	37·2	1 below.	3	− 2	39	+ 5	46	− 5	371	+105
	1. SCOTLAND, EAST -	48	11	40·2	30·5	35·4	3 below.	0	−10	46	+11	57	−10	403	+ 99
	2. ENGLAND, N.E. - -	48	25	40·7	34·3	37·5	2 below.	0	−10	32	+ 2	56	− 6	356	+ 82
	3. ENGLAND, EAST -	52	27	43·8	32·9	38·4	1 below.	5	− 7	33	− 1	55	−13	399	+ 84
	4. MIDLAND COUNTIES	51	27	44·1	33·6	38·9	1 below.	6	− 8	31	0	72	−10	394	+ 88
	5. ENGLAND, SOUTH -	54	28	46·6	37·0	41·8	1 above.	13	− 3	21	− 4	84	−12	281	+ 44
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	51	20	44·0	34·8	39·4	1 below.	6	− 3	27	+ 2	66	−10	292	+ 72
	7. ENGLAND, N.W. -	53	28	45·7	35·2	40·4	0 (average)	16	0	26	0	53	−17	288	+ 62
	8. ENGLAND, S.W. -	52	29	47·8	39·0	43·4	1 above.	22	+ 4	8	−12	103	−23	216	+ 45
	9. IRELAND, NORTH -	54	31	46·5	37·4	42·0	1 above.	13	− 1	13	−10	76	−33	235	+ 41
	10. IRELAND, SOUTH -	54	38	48·1	38·2	43·2	0 (average)	24	+ 2	11	− 6	126	−38	199	+ 53
	— CHANNEL ISLANDS -	55	39	50·3	41·9	46·1	1 above.	29	+ 7	0	− 6	162	− 8	82	+ 11

Rainfall.

	DISTRICTS. (See p. 44.)	For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1892. Number of Rainy Days.	Difference from Mean.	Total Fall.	Difference from Mean.
			10ths of In.	10ths of In.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	3	2	8 less.	45	+ 4	9·2	− 0·2
	1. SCOTLAND, EAST -	4	6	1 more.	33*	+ 3	4·2	− 0·8
	2. ENGLAND, N.E. - -	5	4	0 (average)	31	+ 3	3·0	− 0·4
	3. ENGLAND, EAST -	3	3	1 less.	31	+ 2	2·5	− 1·0
	4. MIDLAND COUNTIES-	4	4	1 less.	32	+ 3	3·3	− 1·0
	5. ENGLAND, SOUTH -	3	3	2 less.	28	0	2·4	− 2·2
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	3	1	9 less.	38	+ 2	7·1	− 2·7
	7. ENGLAND, N.W. - -	3	2	3 less.	34	+ 2	5·2	− 0·2
	8. ENGLAND S.W. - -	5	7	1 less.	38	+ 5	5·2	− 2·0
	9. IRELAND, NORTH -	3	2	5 less.	38	+ 1	5·0	− 1·0
	10. IRELAND, SOUTH -	5	12	4 more.	36	+ 1	6·4	− 0·8
	— CHANNEL ISLANDS -	3	7	1 more.	41	+ 4	5·8	0·0

Bright Sunshine.

	DISTRICTS. (See p. 44.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1892. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	22	+ 5	31	+ 7	80	+ 6	17	+ 1
	1. SCOTLAND, EAST -	8	−18	12	−23	98	−14	21	− 4
	2. ENGLAND, N.E. - -	5	−11	8	−15	100	+16	21	+ 3
	3. ENGLAND, EAST -	10	−10	14	−13	108	0	22	0
	4. MIDLAND COUNTIES-	8	− 9	11	−14	103	+ 9	21	+ 2
	5. ENGLAND, SOUTH -	17	− 3	24	− 4	112*	+18	22	+ 3
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	9	− 8	12	−13	95	+11	20	+ 2
	7. ENGLAND, N.W. - -	21	+ 4	30	+ 6	104	+ 6	21	+ 3
	8. ENGLAND S.W. - -	26	+ 6	36	+ 6	132	+20	26	+ 4
	9. IRELAND, NORTH -	16	− 2	22	− 3	89	−10	18	− 3
	10. IRELAND, SOUTH -	17	− 3	24	− 5	102	−15	21	− 3
	— CHANNEL ISLANDS -	22	− 3	30	− 4	96	−48	18	−10

Bright Sunshine.—For several of the stations there are no "mean" values available, and the "difference from the mean" in some of the districts is consequently that of only a few of the stations.

General Remarks.

Weather during this week was much less wintry and unsettled than during the preceding week, but much wet fog and mist were experienced during the latter part of the time. The rainfall was generally slight, but some rather large amounts were recorded at Scilly and in the south of Ireland.

Temperature was a little above the mean in England S. and S.W., as well as in Ireland N. and the Channel Islands, and just equalled it in England N.W. and Ireland S.; in all other districts, however, it continued below the normal, the deficit ranging from 1° to 3°. The highest of the maxima were registered in most cases on the 25th, and varied from 55° in the Channel Islands, and 54° over Ireland and in England S., to 46° in England E. The lowest of the minima were recorded on the first day of the period, when the thermometer fell to 11° in Scotland E. (at Nairn), 19° in Scotland N., 20° in Scotland W., and to between 25° and 31° in most other districts and to 39° in the Channel Islands.

Rainfall exceeded the mean in Ireland S. and the Channel Islands, as well as in Scotland E., and equalled the normal value in England N.E. In all other parts of the Kingdom there was a deficit. In the north and west of Scotland and the north of Ireland the fall was very slight.

Bright Sunshine exceeded the mean in the western parts of England and in the north of Scotland, but was deficient elsewhere. The percentage of the possible amount of duration ranged from 36 in England S.W., 31 in Scotland N., and 30 in England N.W. and the Channel Islands, to 24 in England S. and Ireland S., 11 in the Midland Counties, and 8 in England N.E.

Barometer and Wind.—During the greater part of this period depressions lay off the south-west of Ireland, and some local irregularities were observed at times over our south-eastern districts also. Easterly to South-Easterly winds were consequently most prevalent over the Kingdom; at first they were strong to a gale in force, but towards the end of the week they became light or moderate in all districts.

* This value has been altered owing to the receipt of further information.

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II.—DATA from which the SUMMARY on page 43 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head												*	*	*	*
	Stornoway	47	20	42·9	28·1	35·5	− 3·7	3	49	1	0·06	−0·86	22·7	+ 5·0	32	+ 7
	Wick	43	19	41·9	33·3	37·6	− 0·7	0	31	5	0·55	+0·03	*	*	*	*
	Lairg ℌ	50	26	43·6	29·9	36·8	− 0·2	4	44	6	0·37	−0·39	*	*	*	*
	Glencarron ℌ	46	28	42·3	30·5	36·4	− 1·1	1	40	1	0·29	−1·16	*	*	*	*
	Fort Augustus ℌ	49	27	42·8	31·1	37·0	− 1·7	2	39	2	0·03	−0·82	16·6	?	24	?
	Fort William ℌ	49	30	45·6	34·2	39·9	+ 0·4	10	30	1	0·02	−1·77	25·7	?	37	?
1. SCOTLAND, E.	Nairn	46	11	39·1	24·6	31·9	− 6·8	0	71	4	0·27	−0·11	*	*	*	*
	Aberdeen	45	17	41·1	33·1	37·1	− 1·9	0	34	6	0·91	+0·31	2·3	−16·7	3	−23
	Braemar ℌ	42	24	38·3	28·7	33·5	− 2·0	0	60	2	0·91	+0·21	13·3†	?†	19†	?†
	Ochtertyre ℌ	45	30	39·6	33·1	36·4	− 1·5	0	39	3	0·61	−0·21	*	*	*	*
	Leith	46	29	42·7	32·6	37·7	− 2·5	2	34	2	0·13	−0·21	*	*	*	*
	Marchmont ℌ	44	28	40·4	31·0	35·7	− 2·2	0	44	7	0·88	+0·30	6·5	?	9	?
2. ENGLAND, N.E.	Alnwick Castle	42	34	40·6	35·6	38·1	− 0·8	0	27	6	0·65	+0·13	*	*	*	*
	Durham	43	25	41·4	33·2	37·3	− 1·4	0	33	6	0·43	+0·02	6·9	−10·6	10	−15
	Shields	41	29	41·0	33·9	37·5	− 2·5	0	32	5	0·31	−0·08	*	*	*	*
	Scarborough ℳ	43	34	40·3	35·6	38·0	− 2·0	0	28	5	0·33	−0·11	*	*	*	*
	York	48	27	42·4	33·1	37·8	− 2·0	1	32	5	0·29	−0·13	5·6	−10·2	8	−15
	Spurn Head	40	31	38·6	34·1	36·4	− 2·2	0	39	4	0·42	+0·10	*	*	*	*
3. ENGLAND, E.	Hillington ℳ	52	31	44·2	32·9	38·6	− 0·9	6	34	2	0·37	−0·07	12·8	− 5·8	18	− 8
	Yarmouth	44	30	39·9	33·3	36·6	− 2·1	0	38	4	0·41	−0·04	*	*	*	*
	Geldeston	49	30	43·2	33·7	38·5	− 1·3	3	30	4	0·39	+0·01	5·9	−14·1	8	−19
	Cambridge	52	27	47·0	32·0	39·5	− 0·5	14	39	3	0·24	−0·14	10·7	− 8·1	15	−11
	Rothamsted	49	30	44·8	32·8	38·8	− 0·4	8	34	3	0·24	−0·24	11·5	?	16	?
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	51	28	42·6	33·4	38·0	− 2·0	2	31	3	0·21	−0·18	*	*	*	*
	Loughborough	49	31	44·3	33·1	38·7	− 1·5	6	33	2	0·30	−0·11	*	*	*	*
	Stamford (Ketton Hall)	50	28	43·1	31·9	37·5	− 3·0	3	36	5	0·20	−0·16	*	*	*	*
	Cheadle ℳ	45	30	40·9	33·6	37·3	− 1·2	0	33	4	0·23	−0·39	*	*	*	*
	Churchstoke ℳ	47	22	44·0	34·6	39·3	− 0·1	6	27	4	0·61	+0·02	11·2	− 6·3	16	− 9
	Hereford ℳ	49	30	45·1	35·2	40·2	− 0·7	9	26	5	0·96	+0·48	*	*	*	*
	Cirencester	48	27	46·0	32·4	39·2	0·0	11	36	5	0·33	−0·26	7·3	−12·6	10	−17
	Oxford	50	29	46·6	34·7	40·7	+ 0·3	13	29	3	0·09	−0·36	8·2	−9·7	11	−13
5. ENGLAND, S.	London	54	31	48·4	35·6	42·0	+ 0·9	18	18	3	0·30	−0·08	5·6†	− 3·8†	12†	− 5†
	North Foreland	47	31	43·7	36·4	40·1	− 0·4	5	21	2	0·52	?	*	*	*	*
	Strathfield Turgiss ℳ	53	30	47·4	35·0	41·2	+ 1·0	15	28	2	0·14	−0·35	*	*	*	*
	Dungeness	50	28	45·6	37·4	41·5	+ 0·6	10	19	3	0·57	+0·11	*	*	*	*
	Hastings (St. Leonards)	48	32	44·5	37·5	41·0	0·0	7	18	3	0·63	+0·14	17·6	− 5·7	24	− 7
	Southampton	53	35	49·3	38·7	44·0	+ 2·1	28	9	2	0·02	−0·56	20·1	+ 0·1	28	+ 1
	Hurst Castle	51	34	47·6	39·1	43·4	+ 1·9	22	8	1	0·07	−0·43	*	*	*	*
	Stowell ℳ	50	30	46·3	36·1	41·2	+ 1·2	12	24	4	0·33	?	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	49	20	46·5	34·2	40·4	− 0·1	13	31	3	0·06	−1·63	*	*	*	*
	Glasgow	45	30	41·0	34·0	37·5	− 2·3	0	32	4	0·11	−0·61	5·5	− 8·5	8	−11
	Ardrossan	48	24	43·1	33·9	38·5	− 2·4	3	29	0	—	−0·65	*	*	*	*
	Glenlee ℌ	51	30	46·0	34·0	40·0	+ 1·4	11	31	5	0·33	−0·67	*	*	*	*
	Douglas (Isle of Man)	46	33	43·5	38·0	40·8	− 0·4	4	15	1	0·05	−0·73	11·8	− 8·2	16	−11
7. ENGLAND, N.W.	Newton Reigny	50	28	45·1	32·3	38·7	+ 0·7	9	36	4	0·18	−0·45	24·2	+ 7·6	34	+12
	Stonyhurst	46	31	42·8	34·4	38·6	− 1·1	2	27	4	0·52	−0·31	13·8	− 3·6	19	− 5
	Blackpool ℳ	50	31	45·3	35·0	40·2	+ 0·1	9	27	2	0·21	−0·36	18·7	+ 1·4	26	+ 2
	Manchester	51	32	45·3	34·3	39·8	+ 0·1	9	29	3	0·35	−0·19	*	*	*	*
	Liverpool Obsy. (Bidston)	48	32	44·0	36·7	40·4	− 0·6	6	20	3	0·19	−0·22	*	*	*	*
	Llandudno ℳ	53	32	48·2	36·1	42·2	0·0	26	17	1	0·15	−0·35	27·9	+ 9·9	39	+14
	Holyhead	52	32	49·0	37·4	43·2	+ 0·8	28	13	2	0·08	−0·53	*	*	*	*
8. ENGLAND, S.W.	Llandovery	52	29	48·3	35·9	42·1	+ 0·3	26	17	4	0·18	−0·79	*	*	*	*
	Pembroke	47	33	46·0	38·7	42·4	− 0·1	17	9	5	0·56	−0·11	33·6	+11·5	46	+16
	Arlington (N. Devon)	50	32	46·4	37·0	41·7	+ 1·3	12	21	6	0·58	−0·44	*	*	*	*
	Cullompton ℳ	51	31	47·5	36·3	41·9	+ 0·5	15	24	6	0·78	+0·07	14·6	− 4·5	20	− 6
	Falmouth	52	39	49·3	41·2	45·3	+ 1·9	24	2	5	1·51	+0·63	29·7	+ 6·2	41	+11
	Plymouth	52	38	49·2	41·9	45·6	+ 2·4	26	0	3	0·85	+0·17	29·1	+ 7·1	40	+10
	Prawle Point	52	37	48·0	41·9	45·0	+ 2·5	21	0	3	0·22	−0·26	*	*	*	*
9. IRELAND, N.	Malin Head	?	32	?	37·9	?	?	?	?	1	0·07	?	*	*	*	*
	Londonderry	53	31	?47·0	?36·9	?42·0	?− 0·5	?14	?14	3	0·06	−0·58	*	*	*	*
	Mullaghmore	54	32	47·9	38·9	43·4	+ 0·6	23	9	2	0·07	−0·65	*	*	*	*
	Belmullet	51	31	46·7	37·3	42·0	− 0·9	13	13	4	0·22	?	*	*	*	*
	Markree Castle	50	31	46·3	36·0	41·2	+ 0·1	12	24	2	0·09	−0·56	17·6	+ 0·2	24	0
	Brookeborough	53	31	45·7	37·1	41·4	+ 1·4	10	20	4	0·37	−0·34	*	*	*	*
	Armagh	51	31	46·0	37·9	42·0	+ 1·4	11	11	5	0·16	−0·39	12·0	− 5·0	17	− 6
	Donaghadee	47	34	45·0	39·3	42·2	+ 0·7	13	8	3	0·11	−0·47	*	*	*	*
	Edgeworthstown	54	34	47·7	35·9	41·8	+ 1·5	16	25	4	0·19	−0·49	*	*	*	*
10. IRELAND, S.	Dublin	48	34	45·8	38·6	42·2	− 0·7	16	10	5	0·61	+0·09	5·8	−14·0	8	−19
	Parsonstown	52	28	47·6	36·3	42·0	+ 0·2	16	16	5	0·65	+0·11	28·9	+ 1·2	26	− 1
	Kilkenny	49	30	46·9	37·4	42·2	− 0·4	21	13	5	1·13	+0·53	*	*	*	*
	Waterford	51	34	48·7	36·9	43·3	− 0·1	26	9	4	0·93	+0·18	*	*	*	*
	Roche's Point	51	36	48·4	40·7	44·6	+ 0·5	24	4	5	1·47	+0·45	*	*	*	*
	Valencia	53	30	49·3	37·6	43·5	− 1·7	29	12	4	1·38	+0·26	27·5	+ 5·7	38	+ 9
	Killarney	54	30	49·5	38·0	43·8	− 0·6	29	11	5	1·90	?	*	*	*	*
	Foynes	52	36	48·7	38·4	43·6	+ 0·2	26	10	5	1·49	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	55	39	50·7	42·6	46·7	+ 0·8	33	0	5	1·14	+0·54	*	*	*	*
	Jersey	54	39	49·9	41·1	45·5	+ 2·0	28	3	1	0·24	−0·37	21·9	− 3·1	30	− 4

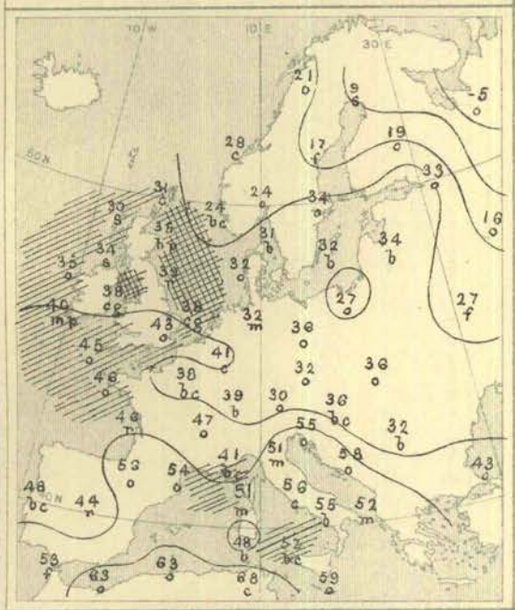
Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked ℌ with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory and the Meteorological Office, Victoria Street. For additional Reports of Sunshine see last page.

Sunday, 21st February.

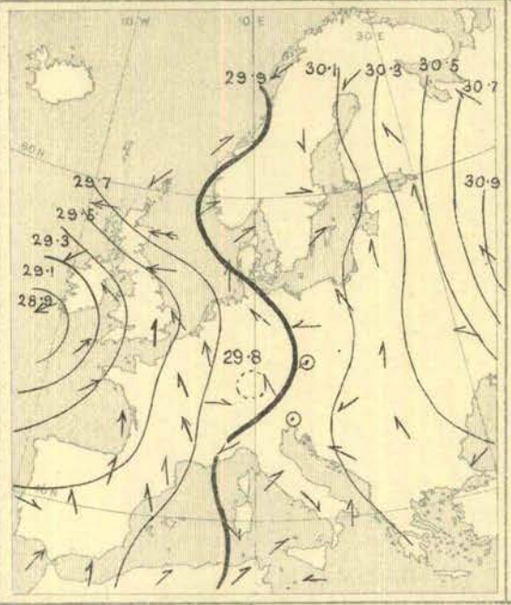
Temperature and Weather. 8 a.m.



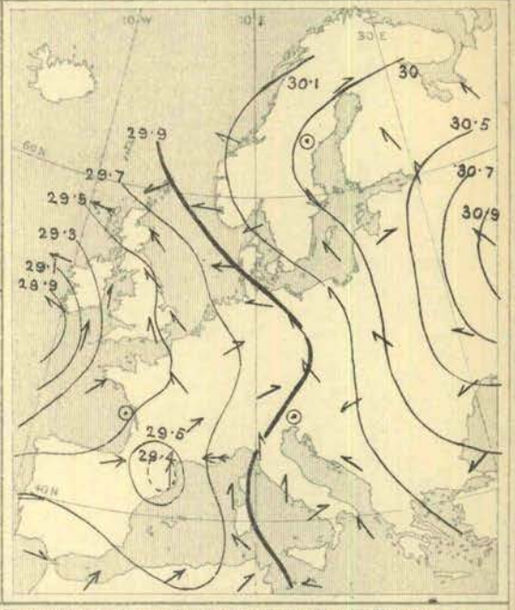
Weather cloudy or overcast in most places, with rain over the northern and central parts of England and with snow in many parts of Scotland and the nor h of Ireland; snow reported also at Haparanda. Fine in the south of Scandinavia, as well as at many of the Italian stations. Rain falling later in nearly all parts of western Europe—heavily in places; lightning seen at night in the south of Ireland. Heavy rain falling also in Spain and the south of France, the largest amounts being 1·6 ins. at Croisette and 1·5 ins. at San Fernando.

Temperature highest, 63° at Nemours, Oran, Algiers, and La Calle, 59° at Malta, and 58° at Lésina; above 50° at most of the Italian and Mediterranean stations, and above 45° in the west of France. Lowest, −5° Fahr. at Archangel, +9° at Haparanda, 15° at Uleaborg, 16° at Moscow, and 17° at Hernösand; below the freezing point in most parts of Scandinavia and Russia, as well as in the extreme north of Scotland; below 40° in all but the most southern parts of the United Kingdom. Subsequently rising to between 46° and 49° at all our southern stations, and to between 50° and 55° in France, but remaining below 40° in the north of our Islands. Exceeding 60° in many parts of Spain and Italy, and exceeding 70° in Algeria.

Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.

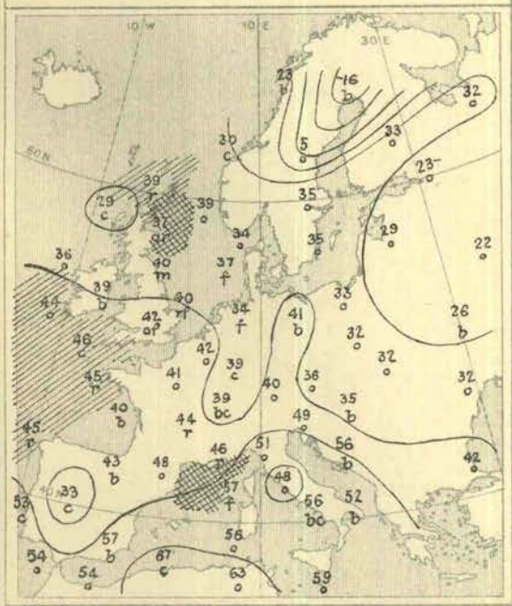


Wind strong to a gale from the Eastward over the northern parts of the United Kingdom, fresh or strong from the South-Eastward or Southward in the south and over France; light or moderate from the latter quarters over the greater part of Russia and central Europe, but North-Easterly in Scandinavia. Light and variable in Italy; chiefly Southerly (South-East to South-West) over Spain and Algeria. Easterly wind moderating later in most of our northern districts, but fresh gale from the South-Eastward springing up in the south of Ireland. Veering to the Westward over the Spanish Peninsula.

Barometer highest, 30·4 ins. and upwards in a large anticyclone lying over central Russia. Lowest, 28·9 ins. and less in a depression lying off the south of Ireland; gradients steep over the west and north of our Islands. Depression subsequently moving slowly to the westward, but secondary disturbance beginning to form off our north-east coasts. Anticyclone over Russia spreading out in a westerly direction.

Monday, 22nd February.

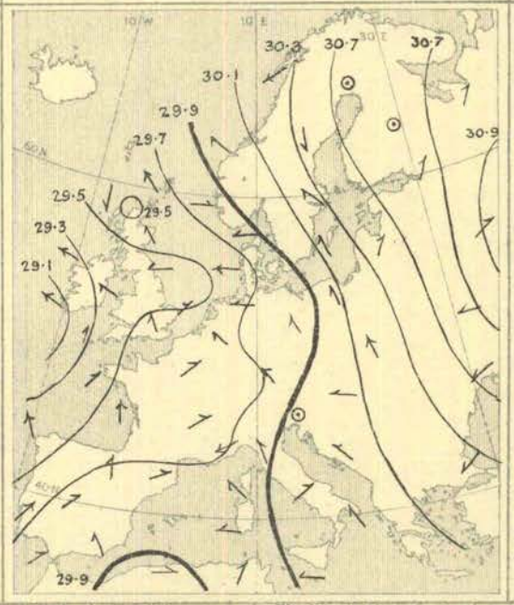
Temperature and Weather. 8 a.m.



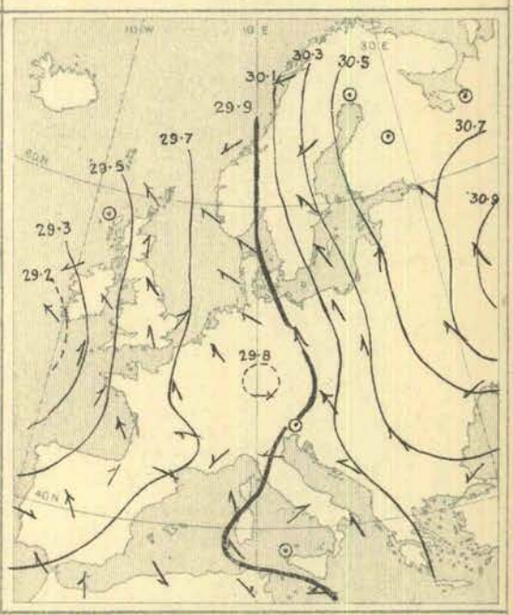
Weather in morning fine and bright over south-eastern and several parts of central Europe, as well as over Lapland and the north of Finland. Changeable and unsettled elsewhere, with rain at several of our own stations, much wet fog over England and on the eastern side of the North Sea. Rain in the south of France also. Becoming very fine over the eastern half of England later, but considerable falls of rain occurring over Scotland, Ireland, the south-west of England and France (1·9 ins. at Nice), as well as in some parts of Spain and northern Italy.

Temperature in morning exceeding 50° on most shores of the Mediterranean (63° at La Calle), and exceeding 40° on the shores of the English and Irish Channels; below 40° at our midland and north-eastern stations, and still lower over central and eastern Europe. Lowest, −16° Fahr. at Haparanda, 0° at Uleaborg, +5° at Hernösand, 22° to 26° over central Russia, and about the freezing point over Poland. Rising later to between 40° and 51° over our Islands generally, to between 50° and 55° in the west of France, and to 59° at Biarritz. Exceeding 60° in most parts of southern Europe and exceeding 70° in Algeria, the highest reading being 73° at La Calle.

Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Wind South-Easterly (South to East) over by far the greater part of Europe, and somewhat fresh in force; variable and light, however, over France; variable and moderate to fresh over the Mediterranean, Southerly over Spain, Westerly over Algeria. Becoming more Southerly over England later; no decided change occurring elsewhere.

Barometer risen greatly in the far east. Morning readings, 30·9 ins. and more to 30·2 ins. over Russia, Poland, and the greater part of the Baltic, Sweden, and Lapland; exceeding 29·9 ins. over Algeria. Lowest, 29·1 ins. and less in a large disturbance off the south-west of Ireland, about 29·45 ins. in a shallow secondary off the Yorkshire coast, and below 29·8 ins. in a very shallow ("V"-shaped) system over the Mediterranean. Gradients moderate to slight. Rising over Ireland and England later, falling slightly over Scotland and Norway, and more decidedly in Spain.

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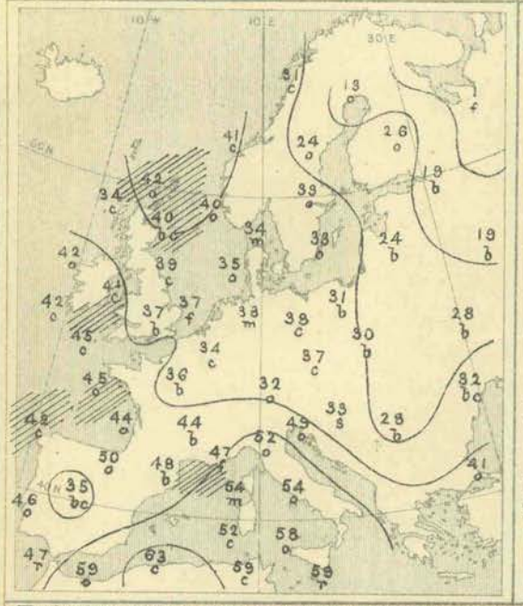
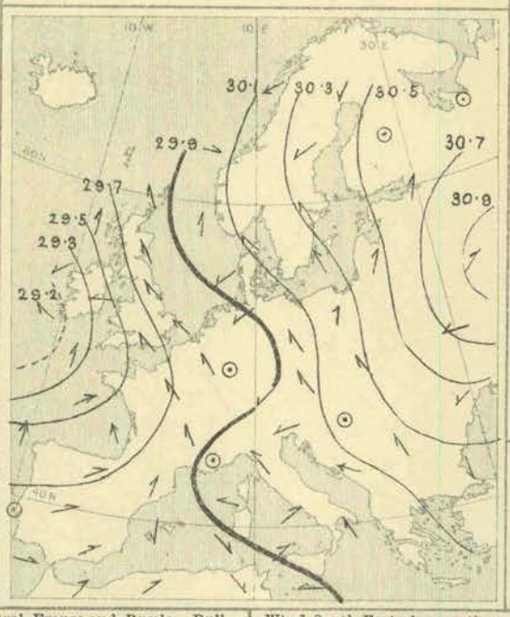
III.—SUMMARY OF WEATHER OVER EUROPE.

Tuesday, 23rd February.

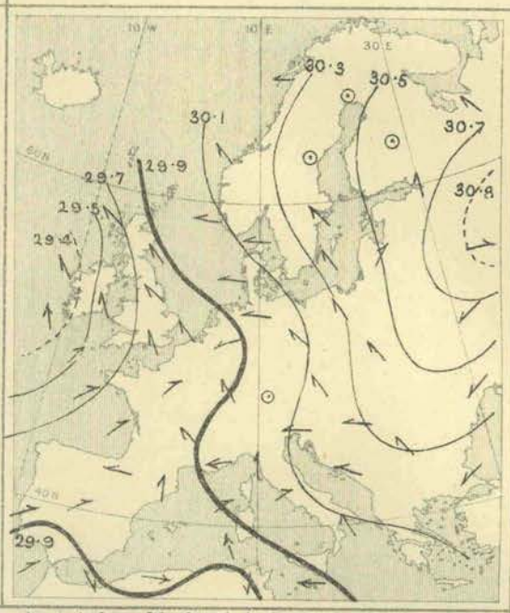
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather fine over the greater part of England, as well as over central France and Russia. Dull elsewhere, with showers at some of our south-western stations, and with snow at Buda-Pesth. A little rain falling during day in the west and extreme north of our Islands generally, and larger amounts in the south of France, but sky clearing over Germany and Austria. Thunder and lightning occurring at Prawle Point in night.

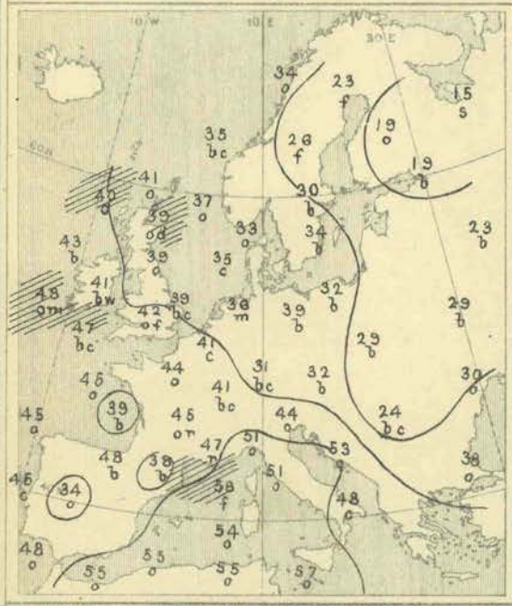
Temperature highest, 63° at Algiers, 59° at Oran, La Calle, and Malta, and 58° at Palermo; above 50° at most of the Mediterranean and Adriatic stations; above 45° in the west of France, and just reaching that point on our own south-western coasts. Lowest, 1° at Archangel, 13° at Haparanda, 14° at Ullesborg, and 19° at St. Petersburg and Moscow, below the freezing point over the greater part of Sweden, Russia, and Austria, as well as over central Scotland. Rising during day to a little above 50° on many parts of our western and southern coasts, to 55° or more in Spain and the south of France, and to 60° or more in Italy and Algeria, the highest reading of all being 75° at Biskra.

Wind South-Easterly over the greater part of our Islands and the Continent, light or moderate in force generally, but strong on some parts of our own western and south-western coasts. Light or moderate from the South-Westward over Spain and the west of France; variable in Algeria, moderate to strong from the North-Eastward in the south of Russia and also over the northern parts of Scandinavia. Subsequently veering to the Southward or South-Westward in the south of our Islands. No important change occurring elsewhere.

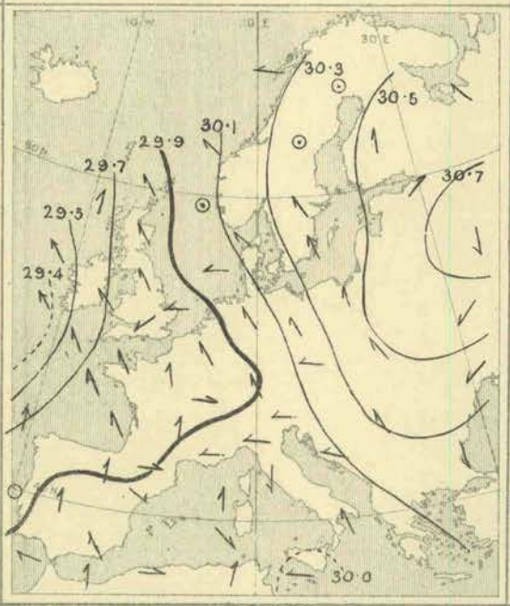
Barometer highest, 30·9 ins. and upwards in an anticyclone lying over central Russia. Lowest, 29·2 ins. and less in a depression lying off the south-west of Ireland. Depression subsequently travelling away in a North-Westerly direction to the Atlantic, and barometer rising in nearly all parts of western Europe.

Wednesday, 24th February.

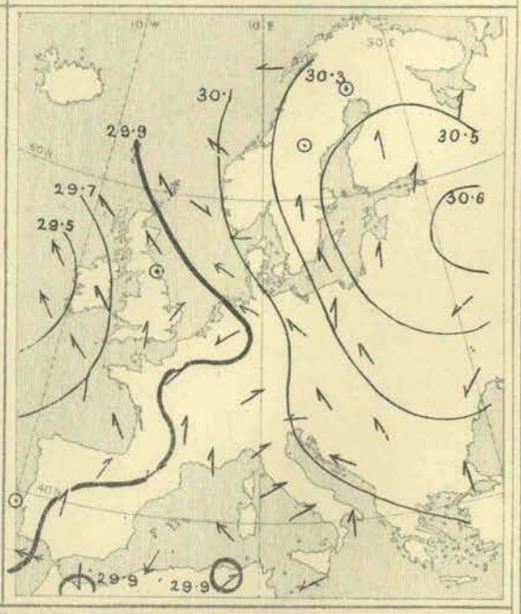
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over Russia and central Europe, and at most stations in the west of our Islands and the east of Spain; cloudy or overcast elsewhere, foggy and rainy in many parts of England. Slight rain later on our north-eastern and south-western coasts, rather larger quantities in the south-east of England, Belgium, and the north of France, and a heavy fall at Nice and Turin. Weather improving in the south of England.

Temperature highest, (1) 56° at Malta, 55° at Oran, Algiers, and La Calle, and 54° at Cagliari and Tunis, above 50° at most of the Mediterranean stations; (2) 48° at Valencia Island, 47° at Scilly, and 46° at Roche's Point and Prawle Point. Lowest, 13° at Helsingfors, 15° at Archangel, 19° at Kuopio and St. Petersburg, and 23° at Haparanda and Moscow; below the freezing point over nearly the whole of Sweden, Russia, and Austria, and very little above it over central Spain. Rising later to 50° or rather more at several of our western and south-western stations, to 55° and upwards in France, and to 60° or more in many parts of southern Europe and Algeria.

Wind South-Easterly over the United Kingdom, France, and all the more central parts of Europe; light or moderate in force generally, but strong in the west and south of Ireland. Light from the Southward over the northern parts of Russia, calm in the north of Sweden. Light and variable over Italy, chiefly Southerly in Spain and Algeria. No important change occurring during day.

Barometer highest, 30·6 ins. to 30·8 ins. in an anticyclone lying over Russia. Lowest, 29·4 ins. and less in a depression lying off the south-west of Ireland; shallow secondary disturbance lying off the south of England, and others reported over south Germany and the east of France. Small disturbance over our southern counties subsequently moving slowly northwards; anticyclone over Russia becoming somewhat reduced in height.

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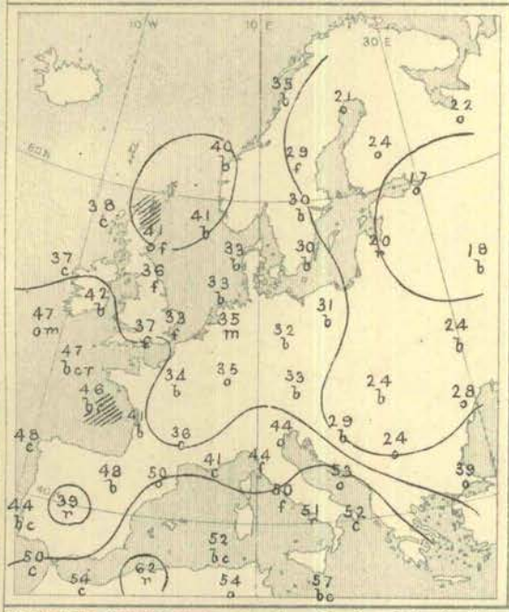
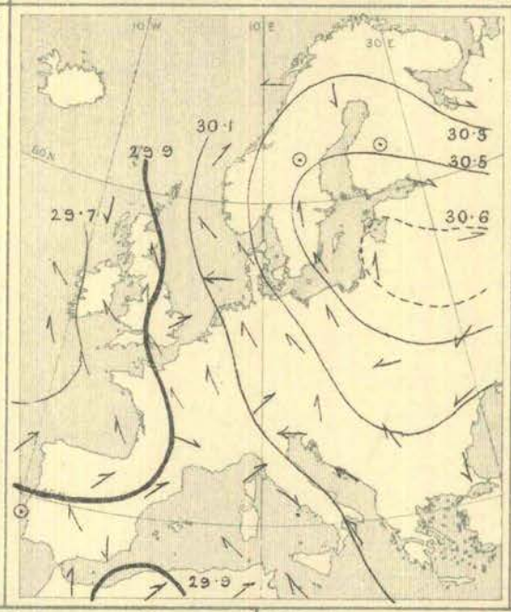
III.—SUMMARY OF WEATHER OVER EUROPE.

Thursday, 25th February.

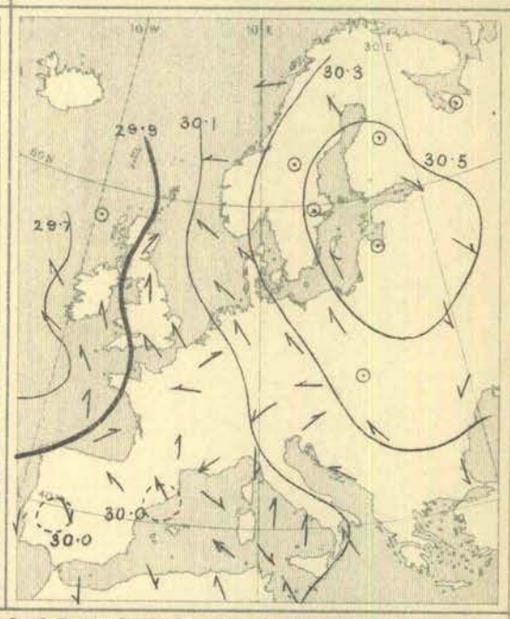
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather fine over the greater part of our Islands and the Continent, but foggy over the eastern and central parts of Great Britain. Dull over the north of Russia, rainy at some of the Spanish and Algerian stations, as well as at Naples. Fog clearing later in many parts of our eastern districts, but rain falling in the south-west; lightning seen at Prawle Point at night. Heavy rain falling during day over northern Italy and the south of France.

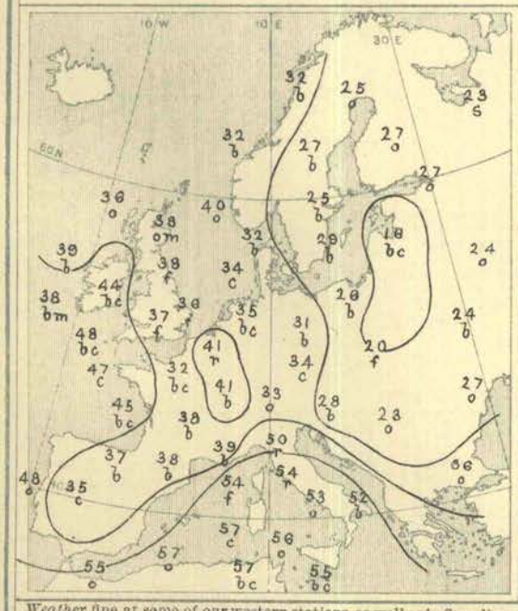
Temperature highest, 62° at Algiers, 57° at Malta, and 56° at Oran, La Calle, and Tunis; above 50° at many of the Mediterranean and Adriatic stations, and above 45° on the extreme south-west coasts of our Islands. Lowest, 17° at St. Petersburg, 18° at Moscow, 20° at Riga and Kharkov, 21° at Haparanda, and 22° at Archangel; below the freezing point at nearly all the Swedish, Russian, and Austrian stations, and just touching that level in some parts of England and Germany. Rising during day to 50° or a little above at several of our western and southern stations, and exceeding 55° over central France and some parts of Spain. Rising above 60° in the south of Italy, and above 70° at some of the Algerian stations.

Wind light or moderate from the South-Eastward over the whole of north-western and central Europe. Light from the Westward or North-Westward over the north of Russia, but North-Easterly in the south of that country. Variable over Spain, Italy, and the south of France, but Southerly (South-East to South-West) in Algeria. Subsequently veering to the Southward or South-Westward in the west of France, no important change elsewhere.

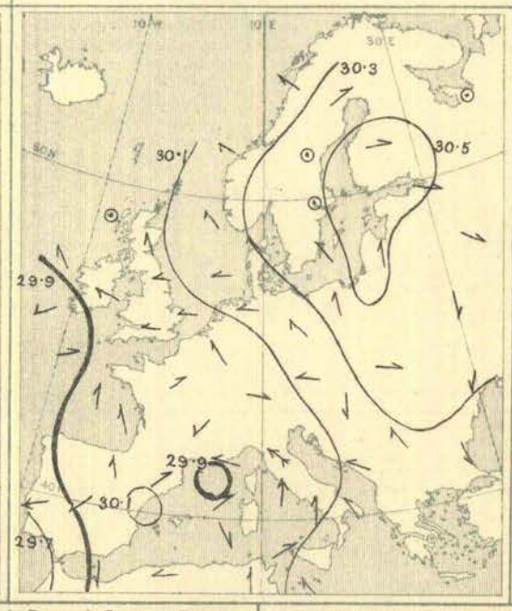
Barometer highest, 30·6 ins. and upwards in an anticyclone lying over Russia. Lowest, 29·6 ins. and less in a depression lying off the west of Ireland, 29·9 ins. and less in a shallow disturbance over Algeria. One or two small and very shallow low-pressure systems lying apparently over the Netherlands and the North Sea. Slight fall of barometer taking place later in the south-west of England as another small disturbance advanced from the southward.

Friday, 26th February.

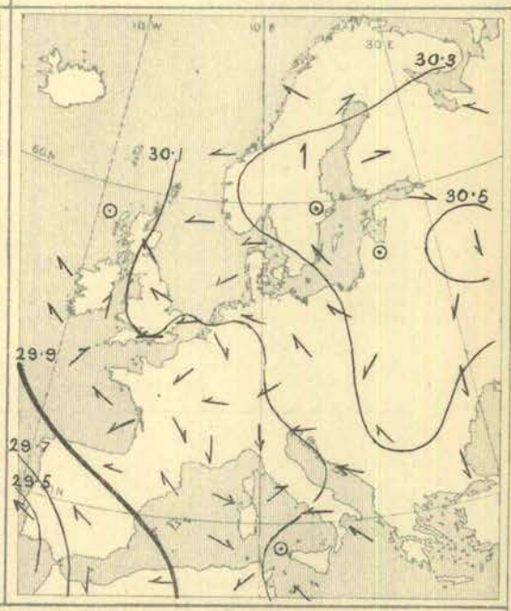
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather fine at some of our western stations, as well as in Scandinavia, Denmark, Germany, France, and Austria. Dull elsewhere, with fog in the eastern and south-eastern parts of Great Britain, as well as over Finland; snow at Archangel, and rain at several of the Italian stations. No important change occurring over western Europe during day, but rain setting in at Lisbon.

Temperature highest, 57° at Cagliari, Algiers, and La Calle, 56° at Palermo and Tunis, and 55° at Oran and Malta; above 50° at most of the Mediterranean stations, and above 45° in the south-west of England and the north-west of France. Lowest, 9° at Helsingfors, 14° at Hangö, 16° at Riga, and 20° at Lemberg and Kharkov; below the freezing point over northern and eastern Europe generally, as well as over central Scotland. Rising during day to between 50° and 55° on several parts of our western and south-western coasts, and exceeding 60° in the west of France, but remaining below 40° at some of our eastern stations. Rising above 60° in the extreme south of Italy, and above 70° in Algeria.

Wind light or moderate from the South-Eastward over the greater part of western and central Europe, and strong from the same quarter in Italy, with a gale at Pesaro. Calm or variable over Sweden and northern Russia, light from the Northward or North-Eastward in the south of Russia, North-Easterly in Spain, variable in Algeria. Subsequently backing to the Eastward or North-Eastward over the greater part of France, and shifting to the North-Westward over northern Italy.

Barometer highest, 30·4 ins. to 30·5 ins. and upwards in a large anticyclone lying over Russia and a considerable portion of Sweden. Lowest, 29·7 ins. and less in a depression lying to the south-westward of the Spanish Peninsula. Depression subsequently spreading north-eastwards and barometer beginning to fall somewhat decidedly over France. No important change occurring elsewhere.

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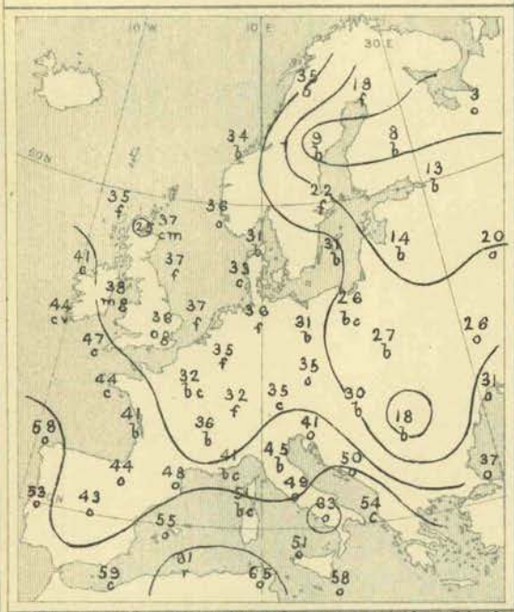
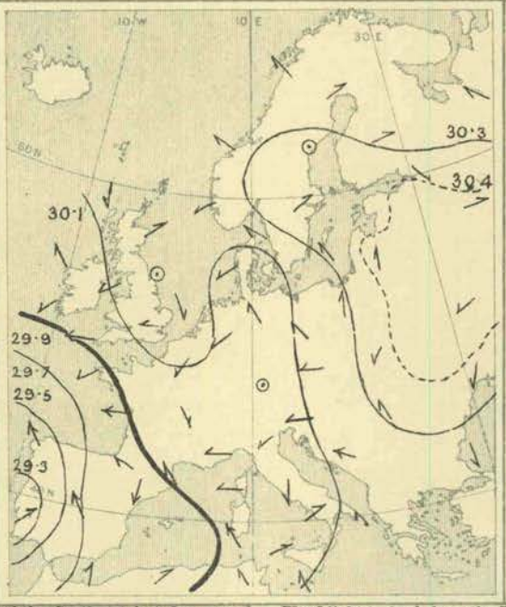
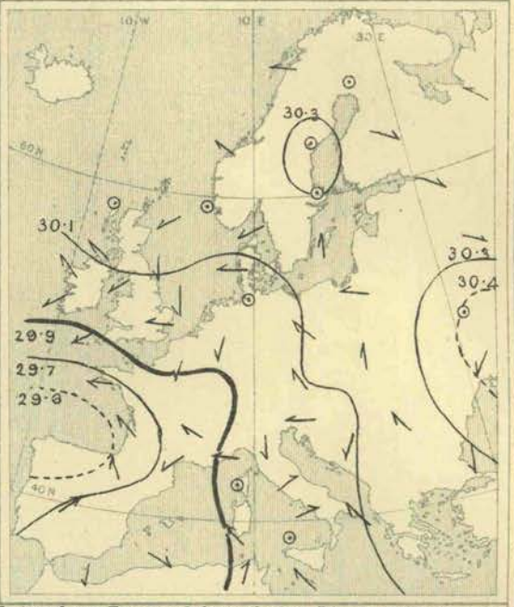
Saturday, 27th February.

Temperature and Weather.	Barometer and Wind.	
8 a.m.	8 a.m.	6 p.m.







Weather cloudy or overcast over the greater part of our Islands and the Continent, but fine over Scandinavia, Denmark, north Germany, and central France, as well as at some of the Austrian stations. Fog or mist reported in many parts of the United Kingdom, and also over the Gulf of Finland; rain falling at Barcelona and Algiers, and snow at Nicolaieff. Showers falling later at several of our northern and north-eastern stations, and heavy rain in the south of France (as much as 2·5 ins. reported next morning at Cette and 1·3 ins. at Cape Béarn).

Temperature highest, 65° at La Calle, 63° at Naples, 61° at Algiers, 59° at Oran, and 58° at Corunna and Malta; above 50° at most of the Mediterranean stations, as well as on the coasts of the Spanish Peninsula, and above 40° in the extreme west and south-west of our Islands. Lowest, 3° at Archangel, 8° at Kuopio, 13° at St. Petersburg, and 14° at Riga; below the freezing point over the whole of northern and eastern Europe, as well as over the central parts of Ireland and Scotland. Daily maxima not much above 45° in any part of the United Kingdom, but thermometer exceeding 50° in France, exceeding 60° in Italy, and rising to between 70° and 75° in Algeria.

Wind light to fresh from the Eastward over France and the south of our Islands; strong to a gale from South-West at Lisbon. Variable in the southern parts of the United Kingdom; light from the North-Westward on our east coasts. Light or moderate from the South-Eastward over the greater part of central Europe, Easterly in Denmark, light from the Westward over the north of Russia, moderate from the North-Eastward in the south of that country. Variable in Italy, Southerly in Algeria. Subsequently increasing to a strong breeze from East at the Channel stations; no important change occurring elsewhere.

Barometer highest, 30·4 ins. and upwards in a large anticyclone lying over Russia. Lowest, 29·3 ins. and less in a well-marked depression lying off the Portuguese coasts; shallow disturbance with readings below 30·1 ins. lying over Holstein. Anticyclone subsequently beginning to break up; Portuguese depression spreading slowly north-eastwards over the Bay of Biscay.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟿ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of the period a large anticyclone of considerable intensity lay over Russia, while a well-defined depression was travelling in a north-westerly direction past our extreme south-west coasts to the Atlantic. The prevailing winds were, therefore, South-Easterly, with cloudy weather in most places, and with rain in nearly all parts of western Europe. During the remainder of the week the anticyclone spread out gradually in a westerly and north-westerly direction until it embraced all the more northern, eastern, and central countries, while the depression in the south-west continued to move away over the Atlantic. Very little change occurred in the direction of the wind, but some improvement in the weather was observed in most regions, with a gradual rise in temperature over our Islands. At the close of the week a depression which had appeared off the Portuguese coasts began to spread north-eastwards over Spain and the Bay of Biscay. Freshening Easterly winds, therefore, set in at our southern stations and temperature showed some inclination to fall over western Europe generally. Over the northern and eastern parts of the Continent hard frost prevailed throughout the week.

BRIGHT SUNSHINE Values for the Week in addition to those found on page 44.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	11·5	?	16	?	EASTBOURNE	17·0	?	23	?
OSWALDKIRK (Yorkshire)	3·3	?	5	?	TENBY *	29·9 *	?	41*	?
WORKSOP	?4·5	−12·0	?6	−17	NEWQUAY	26·8	?	37	?
THURCASTON (Leicestershire)	6·9	− 8·1	10	−11	TORQUAY *	20·8 *	?	28*	?
MARGATE	18·7	?	26	?	ARLEY COTTAGE (County Cavan)	17·2	?	24	?
BRIGHTON	21·4	?	29	?	GUERNSEY				

* The values at Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.
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VOL. IX. No. 9.] *Third Series.* WEEK ENDING SATURDAY, 5TH MARCH, 1892. [*Price 6d.* [*Annual subscription, post paid, £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years' observations (1871-90). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the ten years 1881-90. RAINFALL.—*The Mean amounts* are those for the corresponding periods in the twenty-five years 1866-90, but the *Mean numbers of Rainy Days* are those for the ten years 1881-90, only. BRIGHT SUNSHINE.—*The Mean values* employed are those for the corresponding periods in the ten years 1881-90.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 50.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1892. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	46	14	40·2	28·8	34·3	4 below.	0	− 5	54	+20	46	−11	422*	+119
	1. SCOTLAND, EAST	49	10	38·4	28·8	33·5	5 below.	0	−11	60	+25	57	−21	463	+117
	2. ENGLAND, N.E.	43	25	37·4	31·8	34·5	5 below.	0	−12	53	+23	56	−14	409	+ 95
	3. ENGLAND, EAST	42	25	36·9	25·7	33·2	6 below.	0	−14	62	+29	55	−22	461	+102
	4. MIDLAND COUNTIES	45	24	37·2	30·0	33·5	7 below.	0	−16	60	+29	72	−22	454	+107
	5. ENGLAND, SOUTH	46	23	38·1	30·4	34·1	7 below.	0	−17	55	+30	84	−25	336	+ 63
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	47	25	39·5	30·9	35·0	5 below.	0	−10	49	+24	66	−18	341	+ 88
	7. ENGLAND, N.W.	45	22	38·3	31·6	34·9	6 below.	0	−11	50	+24	53	−26	338	+ 78
	8. ENGLAND, S.W.	48	25	3 ·0	30·9	34·8	7 below.	0	−18	50	+29	103	−38	266	+ 69
	9. IRELAND, NORTH	46	25	39·7	31·4	35·4	6 below.	0	−15	46	+23	76	−47	241	+ 61
	10. IRELAND, SOUTH	50	27	40·7	32·8	36·7	7 below.	0	−22	37	+19	126	−57	236	+ 74
	— CHANNEL ISLANDS	45	28	41·3	34·8	37·9	7 below.	0	−23	29	+22	162	−25	111	+ 19

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 50.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1892. Number of Rainy Days.	Difference from Mean.	Total Fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1892. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of In.	10ths of In.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	1	less than ½.	9 less.	46	+ 1	9·4*	− 1·0	22	− 3	30	− 3	102	+ 7	19	+ 1
	1. SCOTLAND, EAST	2	1	4 less.	35	+ 1	4·3	− 1·3	9	− 5	12	− 6	107	−24	20	− 5
	2. ENGLAND, N.E.	5	2	2 less.	36	+ 4	3·2	− 0·7	8	−11	11	−15	108	+ 5	19	0
	3. ENGLAND, EAST	5	3	1 less.	36	+ 3	2·8	− 1·2	4	−17	5	−23	112	−17	19	− 4
	4. MIDLAND COUNTIES	3	1	4 less.	35	+ 3	3·4	− 1·3	7	−11	9	−16	110	− 3	19	− 1
	5. ENGLAND, SOUTH	2	2	3 less.	30	− 1	2·6	− 2·4	13	− 8	17	−11	125	+12	21	+ 1
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	0	—	9 less.	38	− 1	7·1	− 3·6	22	+ 3	30	+ 5	117	+17	21	+ 3
	7. ENGLAND, N.W.	1	less than ½.	6 less.	35	0	5·2	− 0·7	19	+ 1	25	0	123	+15	22	+ 3
	8. ENGLAND S.W.	0	—	7 less.	38	+ 2	5·2	− 2·7	26	+ 1	34	+ 1	158	+24	27	+ 4
	9. IRELAND, NORTH	0	—	6 less.	38	− 3	5·0	− 1·6	18	0	24	− 1	107	− 5	19	− 1
	10. IRELAND, SOUTH	0	—	7 less.	36	− 3	6·4	− 1·5	20	− 2	26	− 4	122	−13	21	− 3
	— CHANNEL ISLANDS	1	1	5 less.	42	+ 2	5·9	− 0·5	23	+ 3	31	+ 5	119	−53	20	− 9

Bright Sunshine.—For several of the stations there are no "mean" values available, and the "difference from the mean" in some of the districts is consequently that of only a few of the stations.

General Remarks.

Weather during this week was very cold and the air dry in all parts of the Kingdom. In the east and south-east the sky was generally overcast, and frequent, but very slight, falls of snow were experienced; in the west and extreme north, however, there were many intervals of sunshine.

Temperature was below the mean, the deficit ranging from 4° in Scotland N. to as much as 7° in England S. and S.W., the Midland Counties, Ireland S., and the Channel Islands. The highest of the maxima were recorded either on February 28th or 29th, and varied from 50° in Ireland S. to 42° in England E. During the greater part of the time the daily maxima (except in the extreme west and south-west) were very little above the freezing point. The lowest of the minima were recorded in most cases on March 5th, when the thermometer fell to 10° in Scotland E. (at Braemar), to 14° in Scotland N. (at Lairg), and elsewhere to between 22° (in England N.W.) and 28° (in the Channel Islands).

Rainfall was less than the mean in all districts. At most of the western and northern stations no measurable amount of rain was recorded.

Bright Sunshine exceeded the normal value in some of the western districts, but showed a deficiency elsewhere—especially over eastern, north-eastern, and central England. The percentage of the possible duration ranged from 34 in England S.W., 31 in the Channel Islands, and 30 in Scotland N. and W., to 17 in England S., and to only 5 in England E.

Barometer and Wind.—During the whole of this week the barometer was highest in the north and lowest in the south. No depressions passed immediately over us, but some low-pressure systems appearing off our south-eastern and south-western coasts caused the Easterly and North-Easterly winds to increase to a strong breeze or moderate gale at times on our south-eastern and Channel coasts. By the end of the period pressure had become more uniform and the winds were light or moderate generally.

* This value has been altered slightly owing to the receipt of further information.

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II.—DATA from which the SUMMARY on page 49 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	46	30	42·0	33·4	37·6	− 0·6	0	31	4	0·06	−0·65	*	*	*	*
	Stornoway	45	29	39·9	30·1	34·9	− 4·3	0	50	0	—	−0·90	16·3	− 2·9	22	− 3
	Wick	42	20	39·4	29·0	34·1	− 4·3	0	55	0	—	−0·50	*	*	*	*
	Lairg ⚓	44	14	40·0	24·6	32·1	− 4·9	0	69	1	0·01	−0·73	*	*	*	*
	Glencarron ⚓	43	19	40·2	25·5	32·6	− 4·8	0	66	0	—	−1·40	*	*	*	*
	Fort Augustus ⚓	42	17	40·3	27·9	33·9	− 4·7	0	57	2	0·10	−0·69	25·4	?	34	?
	Fort William ⚓	44	21	39·7	31·0	35·2	− 4·3	0	48	0	—	−1·67	24·7	?	33	?
1. SCOTLAND, E.	Nairn	41	17	39·4	26·0	32·5	− 6·4	0	67	1	0·20	−0·18	*	*	*	*
	Aberdeen	42	25	39·6	32·3	35·8	− 3·3	0	43	4	0·06	−0·54	15·7	− 5·3	21	− 8
	Braemar ⚓	37	10	34·8	23·9	29·2	− 6·3	0	90	2	0·10	−0·52	11·5†	?†	16†	?†
	Ochtertyre ⚓	49	21	41·6	28 3	34·8	− 3·1	0	50	0	—	−0·78	*	*	*	*
	Leith	43	30	39·7	32·6	36·1	− 4·3	0	41	2	0·02	−0·30	*	*	*	*
	Marchmont ⚓	38	28	35·3	29·9	32·5	− 5·3	0	67	3	0·29	−0·29	0·3	?	0	?
2. ENGLAND, N.E.	Alnwick Castle	39	25	36·7	31·6	34·1	− 4·7	0	55	4	0·26	−0·26	*	*	*	*
	Durham	40	27	36·6	30·1	33·3	− 5·5	0	61	4	0·31	−0·12	4·6	−15·2	6	−21
	Shields	41	30	38·4	32·3	35·3	− 4·6	0	47	6	0·31	−0·09	*	*	*	*
	Scarborough ℳ	39	30	36·2	32·4	34·2	− 5·9	0	55	6	0·23	−0·21	*	*	*	*
	York	43	28	39·0	31·3	35·0	− 4·8	0	49	5	0·14	−0·26	9·8	− 8·1	13	−11
	Spurn Head	42	30	37·7	33·0	35·3	− 4·4	0	47	5	0·12	−0·18	*	*	*	*
3. ENGLAND, E.	Hillington ℳ	41	25	37·7	29·5	33·5	− 6·3	0	60	6	0·22	−0·19	4·0	−16·7	5	−22
	Yarmouth	40	28	36·1	30·6	33·3	− 5·6	0	61	5	0 59	+0·14	*	*	*	*
	Geldeston	42	27	37·4	30·0	33·6	− 6·2	0	59	6	0·37	0·00	4·4	−17·8	6	−23
	Cambridge	42	26	38·0	29·7	33·7	− 6·4	0	58	6	0·21	−0·15				
	Rothamsted	40	25	35·3	28·9	32·0	− 7·7	0	70	3	0·21	−0·23	3·2	?	4	?
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	42	27	38·1	30·6	34·2	− 5·8	0	55	4	0·14	−0·25	*	*	*	*
	Loughborough	43	27	37·6	31·1	34·3	− 6·3	0	54	4	0·11	−0·27	*	*	*	*
	Stamford (Ketton Hall)	43	26	37·9	30·6	34·1	− 6·7	0	55	5	0·32	+0·02	*	*	*	*
	Cheadle ℳ	42	26	36·0	29·6	32·7	− 6·1	0	65	3	0·03	−0·57	*	*	*	*
	Churchstoke ℳ	40	24	35·9	29·0	32·4	− 7·2	0	67	2	0·02	−0·50	8·0	−11·3	11	−15
	Hereford ℳ	44	27	38·1	30·0	33·9	− 7·2	0	57	0	—	−0·42	*	*	*	*
	Cirencester	45	24	37·3	28·6	32·8	− 6·8	0	64	0	—	−0·52	14·3	− 7·2	19	− 9
	Oxford	43	27	37·0	30·1	33·5	− 7·2	0	60	2	0·03	−0·37	7·0	−13·1	9	−18
5. ENGLAND, S.	London	42	25	37·3	30·7	33·9	− 7·4	0	57	4	0·22	−0·14	3·7†	−10·6†	5†	−13†
	North Foreland	40	28	37·3	32·1	34·6	− 5·8	0	52	2	0·30	?	*	*	*	*
	Strathfield Turgiss ℳ	43	23	37·4	29·3	33·2	− 7·5	0	62	4	0·10	−0·34	*	*	*	*
	Dungeness	43	23	37·7	30·1	33·8	− 7·1	0	57	2	0·18	−0·24	*	*	*	*
	Hastings (St. Leonards)	42	23	37·1	29·6	33·2	− 8·1	0	62	3	0·38	−0·09	15·2	−10·8	20	−13
	Southampton	46	26	40·6	29·8	35·0	− 7·0	0	49	2	0·10	−0·41	17·5	− 4·5	23	− 7
	Hurst Castle	44	26	40·0	31·7	35·7	− 6·0	0	44	2	0·05	−0·41	*	*	*	*
	Stowell ℳ	42	25	37·0	29·7	33·2	− 6·9	0	62	0	—	?	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	45	25	40·0	28·1	33·9	− 6·8	0	57	0	—	−1·59	*	*	*	*
	Glasgow	44	28	38·2	32·2	35·2	− 4·6	0	48	1	0·02	−0·65	9·5	− 6·1	13	− 8
	Ardrossan	45	28	39·6	32·1	35·7	− 5·2	0	44	0	—	−0·59	*	*	*	*
	Glenlee ⚓	47	27	40·4	30·1	35·1	− 3·6	0	48	0	—	−0·92	*	*	*	*
	Douglas (Isle of Man)	43	27	39·0	31·8	35·3	− 5·8	0	47	0	—	−0·72	34·3	+11·6	46	+16
7. ENGLAND, N.W.	Newton Reigny	40	22	37·0	28·3	32·5	− 5·7	0	67	2	0·03	−0·55	13·5	− 5·3	18	− 6
	Stonyhurst	42	29	37·7	31·4	34·5	− 5·1	0	53	1	0 02	−0·80	18·0	− 0·9	24	− 1
	Blackpool ℳ	45	31	42·5	33·6	37·9	− 2·4	1	29	0	—	−0·53	23·0	+ 4·2	31	+ 6
	Manchester	43	27	37·9	29·9	33·8	− 6·0	0	57	0	—	−0·55	*	*	*	*
	Liverpool Obsy. (Bidston)	43	29	37·7	32·3	34·9	− 6·1	0	50	1	0·02	−0·38	*	*	*	*
	Llandudno ℳ	41	27	37·9	32·1	34·9	− 7·4	0	50	0	—	−0·48	19·3	+ 0·1	26	+ 1
	Holyhead	43	29	39·0	33·4	36·1	− 6·3	0	41	1	0·01	−0·57	*	*	*	*
8. ENGLAND, S.W.	Llandovery	46	25	39·7	28 6	34·0	− 7·8	0	56	0	—	−0·90	*	*	*	*
	Pembroke	44	28	38·7	31·9	35·2	− 7·3	0	48	0	—	−0·60	35·8	+11·6	47	+15
	Arlington (N. Devon)	42	25	37·3	28·6	32·8	− 7·8	0	64	1	0·02	−0·94	*	*	*	*
	Cullompton ℳ	44	27	38·3	30·4	34 2	− 7 4	0	55	0	—	−0·68	18·4	− 3·3	24	− 5
	Falmouth	45	31	40·4	33·5	36·9	− 6·5	0	36	0	—	−0·83	19·7	− 5·5	26	− 6
	Plymouth	45	28	36·1	32·1	35·5	− 7·8	0	46	0	—	−0·62	22 9	− 2·0	13	− 3
	Prawle Point	48	28	39·4	31·4	35 3	− 7·1	0	47	0	—	−0·46	*	*	*	*
9. IRELAND, N.	Malin Head	43	27	38·6	33·4	35·9	− 6·4	0	43	0	—	?	*	*	*	*
	Londonderry												*	*	*	*
	Mullaghmore	45	30	39·3	33·1	36·1	− 6·7	0	41	0	—	−0·70	*	*	*	*
	Belmullet	46	28	40·7	32·7	36·6	− 6·8	0	38	0	—	?	*	*	*	*
	Markree Castle	46	26	39·9	28·6	34·1	− 7·0	0	55	0	—	−0·60	21·0	+ 2·0	28	+ 3
	Brookeborough	45	25	40·1	27·1	33·4	− 6·6	0	60	0	—	−0·68	*	*	*	*
	Armagh	44	28	38·3	29·3	33·7	− 7·0	0	58	2	0·01	−0·49	15·3	− 2·9	20	− 4
	Donaghadee	43	32	39·0	35·4	37·2	− 4·3	0	34	1	0·01	−0·51	*	*	*	*
	Edgeworthstown	? 45	30	? 41·4	31·7	? 36·4	?− 4·1	0	? 39	2	0·02	−0·66	*	*	*	*
10. IRELAND, S.	Dublin	45	29	40·3	33·8	37·0	− 5·9	0	35	2	0·04	−0·46	17·1	− 4·1	23	− 5
	Parsonstown	45	27	39·6	30·1	34·7	− 7·1	0	51	0	—	−0·54	12·6	− 8·8	17	−11
	Kilkenny	44	31	39·4	33·0	35·1	− 6·5	0	41	1	0·01	−0·52	*	*	*	*
	Waterford	46	32	39·8	34·2	36·9	− 6·9	0	36	0	—	−0·74	*	*	*	*
	Roche's Point	45	32	40·6	33·9	37·2	− 7·0	0	34	0	—	−0·95	*	*	*	*
	Valencia	59	33	44·7	34·6	39·5	− 5·7	8	27	0	—	−1·05	29·0	+ 5·0	38	+ 7
	Killarney	44	28	40 8	32·1	36·3	− 8·0	0	40	0	—	?	*	*	*	*
	Foynes	45	29	40·6	30·9	35·6	− 7·7	0	45	0	—	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	45	31	41·6	36·0	38·7	− 7·1	0	23	0	—	−0·57	*	*	*	*
	Jersey	45	28	40·9	33·6	37·1	− 6·7	0	34	2	0·18	−0·42	31 0	+ 2·8	41	+ 5

Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked ⚓ with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

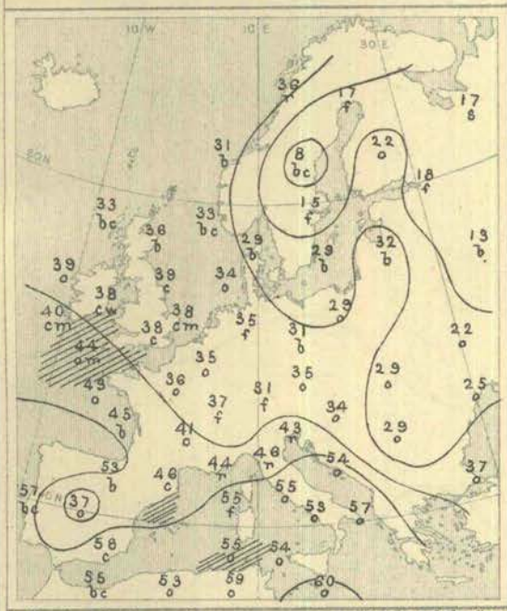
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory and the Meteorological Office, Victoria Street. For additional Reports of Sunshine see last page.

III.—SUMMARY OF WEATHER OVER EUROPE.

Sunday, 28th February.

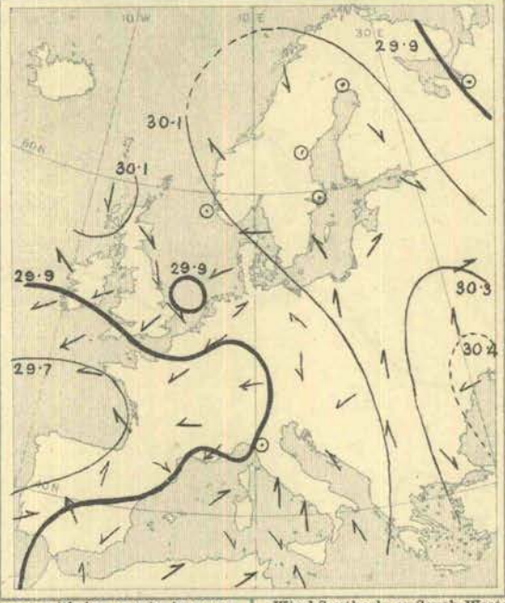
Temperature and Weather.

8 a.m.

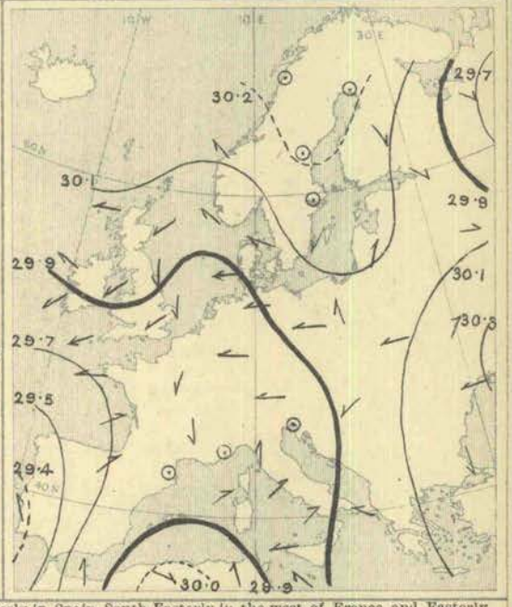


Barometer and Wind.

8 a.m.



6 p.m.



Weather cloudy over the greater part of our Islands and the Continent, with fog or mist in many places, rain at some of the French stations, and also at Trieste. Fine in the east and south of Scotland, as well as over the south-west of France and the greater part of Algeria and Scandinavia. Showers falling later in France, the north and east of our Islands, and some parts of Germany; a considerable fall of rain at Lisbon.

Temperature in morning, 60° at Malta, 59° at La Calle, 57° at Brindisi, 55° at Rome, Barcelona, Cagliari, and Oran; above 50° at nearly all the Mediterranean and Adriatic stations, as well as on the coasts of the Spanish Peninsula. Lowest, 8° at Hernösand, 9° at Hangö, 13° at Moscow, 15° at Stockholm and Helsingfors, and 17° at Haparanda and Archangel; below the freezing point over the whole of northern and eastern Europe, and below 40° in most parts of the United Kingdom. Daily maxima below 40° in Germany and below 45° over the greater part of our Islands, but exceeding 50° in France, and reaching 63° at Biarritz and Malta and 65° to 75° over Algeria.

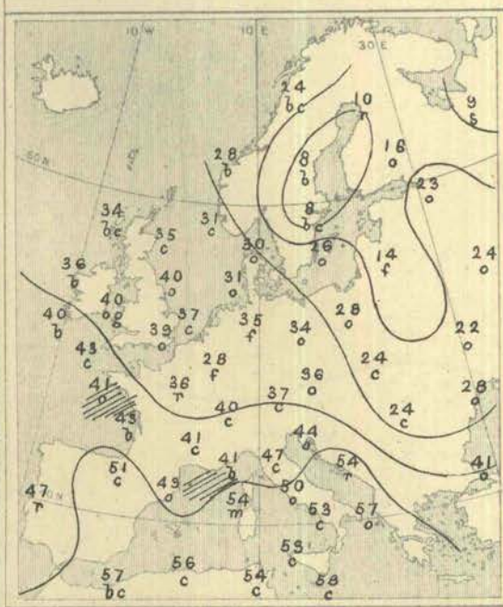
Wind Southerly or South-Westerly in Spain, South-Easterly in the west of France, and Easterly in the west and south of our Islands, with a moderate gale at some of the Channel stations. Light from the Westward or North-Westward in the east of Scotland, and from the Northward over the eastern and central parts of England. Rather variable, but chiefly South-Easterly over Italy, central Europe, and the Baltic, and Easterly in Denmark, but North-Westerly over Finland. Subsequently veering to the South-Westward in the south-west of France, and blowing strongly from the Southward on the Portuguese coast; remaining light from South-East over central Europe.

Barometer highest, 30·4 ins. and upwards in an anticyclone lying over the Black Sea and the south of Russia, and 30·2 ins. and upwards in a secondary system lying over a considerable part of Sweden and Finland; 30·1 ins. and upwards in a third lying over the north-west of Scotland, and in a fourth over Algeria. Lowest, 29·7 ins. and less in a large depression over the Bay of Biscay, 29·9 ins. and less in a small shallow disturbance off the east of England. Depression over Bay of Biscay subsequently filling up, or moving away in a westerly direction, and barometer rising over France.

Monday, 29th February.

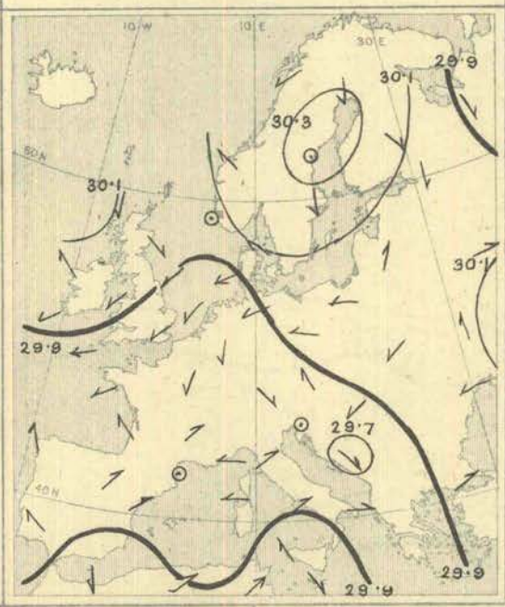
Temperature and Weather.

8 a.m.

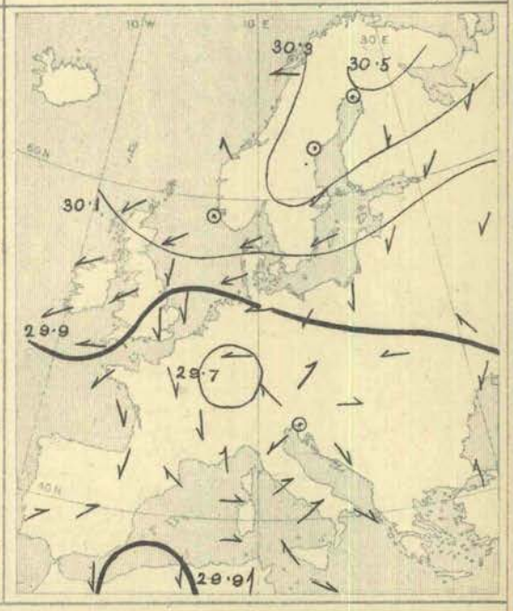


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over Scandinavia and the north and west of our Islands, also over Algeria and the Riviera; cloudy or overcast elsewhere and unsettled. Snow and rain over northern Russia, rain in several parts of France, slight showers over England. Rain, and some hail, later, over France and the south-eastern counties of England, and also on our north-east coasts; amounts collected slight in our Islands, larger over France and Belgium, and heavy at some of the Mediterranean stations. Thunderstorms in the southern parts of France.

Temperature changing irregularly, low over our Islands for time of year. Morning readings exceeding 50° at many of the Mediterranean stations, and exceeding 40° in the south and west of France, and on the south-west coasts of our Islands. Lower inland, and as low as (1) 8° at Hernösand and Stockholm, 9° at Archangel, 10° at Uleaborg, 12° at Hangö, 14° at Riga, 24° to 31° in Norway; (2) 28° at Brussels, 31° at Wiesbaden; (3) 32° at Oxford. Rising to between 40° and 45° over Great Britain later and a little higher in Ireland, to 50° and more in the west and south of France, and to 63° at Biarritz and in the south of Italy, and to between 65° and 70° in Algeria.

Wind very variable. Anticyclone over northern Europe; South-Easterly over Germany, Easterly to Northerly over the North Sea, the British Islands, and the Channel. South-Easterly to Easterly in the west of France, very variable, but mainly cyclonic, elsewhere. Freshening from North-East over our Islands later, and becoming Northerly over the Bay of Biscay.

Barometer highest, (1) 30·3 ins. and more to 30·1 ins. over Scandinavia, the Baltic, and Finland; (2) 30·0 ins. and more to 29·8 ins. over Algeria, the south of Spain, and the southern parts of the Mediterranean; (3) 30·2 ins. and more to 30·0 ins. over southern Russia. Lowest, 29·8 ins. and less in a complex system of shallow depressions lying over the Bay of Biscay, France, and western Germany. Gradients very irregular, but slight. Rising slightly over the British Islands and their neighbourhood, and also over Italy, later; decreasing over southern Russia, from which region the anticyclone recently observed was disappearing.

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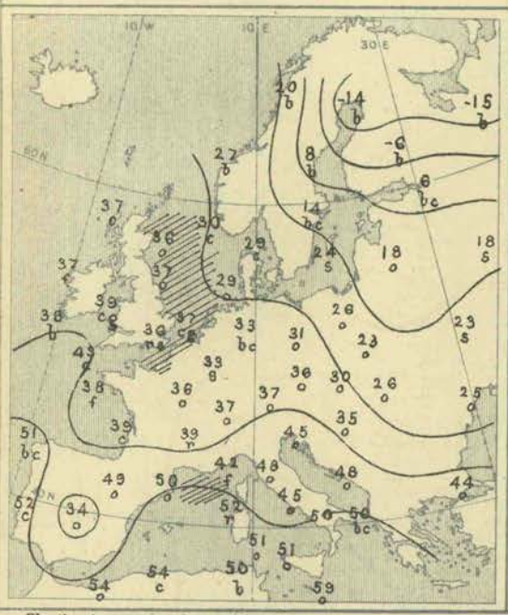
III.—SUMMARY OF WEATHER OVER EUROPE.

Tuesday, 1st March.

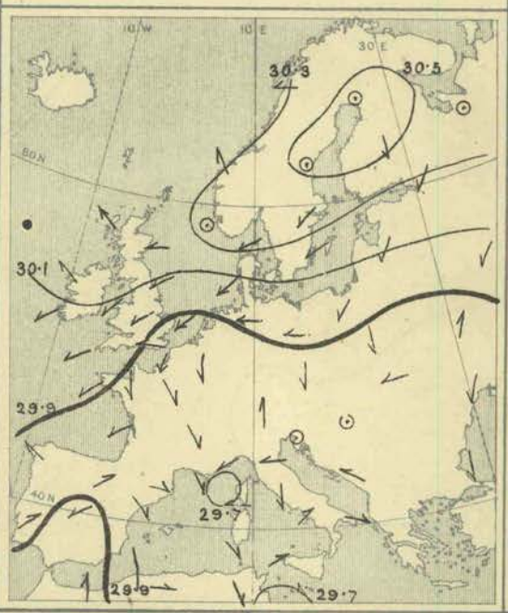
Temperature and Weather.

8 a.m.

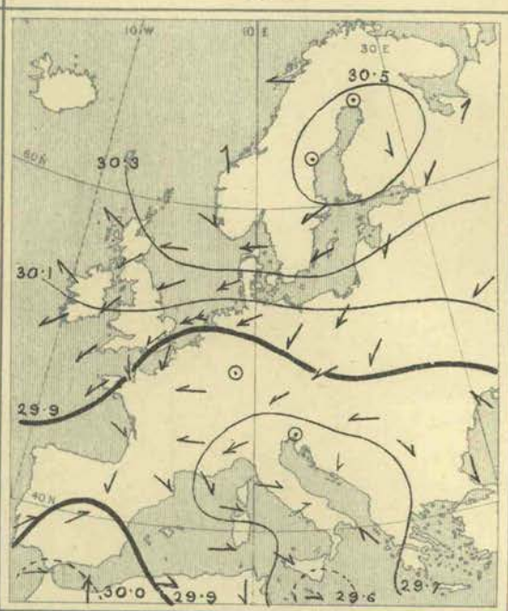


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over northern Europe, Ireland, and at many of the Mediterranean stations, cloudy or overcast elsewhere, and unsettled. Snow falling over central Russia, rain and wet snow in many parts of England and Belgium, rain in several parts of France. Snow, hail, and cold rain later in the north-east and south-east of our Islands, the Netherlands, and Germany, some rain in the south of France; weather fair in the west and north-west of our Islands and over northern Europe.

Temperature fallen rapidly over northern Europe, little changed elsewhere. Morning readings still exceeding 50° in Portugal, and on the western and southern shores of the Mediterranean, and exceeding 40° in the west and south of France and over the Adriatic, lower elsewhere. Below 40° all over the United Kingdom and central Europe, and as low as −15° Fahr. at Archangel, −14° at Haparanda, −6° at Knopio, +6° at St. Petersburg, 8° at Hernösand, 18° at Riga and Moscow, and 20° at Kharkov. Not touching 40° over our north-eastern and eastern districts later, but exceeding that value in the west and south-west; just touching 60° at Malta, exceeding 60° in the south-west and south of France (62° at Perpignan), and exceeding 65° in some parts of Algeria.

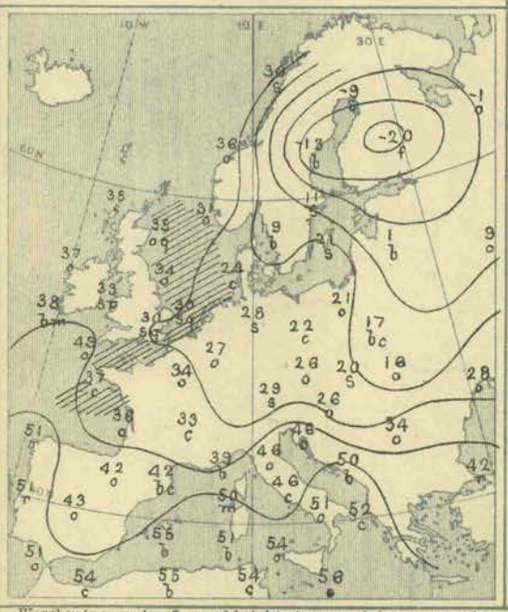
Wind calm in the extreme north of Europe; North-Easterly, moderate to strong, over the Baltic, Denmark, the North Sea, and England; Easterly, moderate, over Ireland; North-Easterly, light, over the Bay of Biscay; very variable and light elsewhere. Increasing to a moderate or fresh gale from North-East on our eastern coasts later, and to a fresh or strong breeze from East and South-East in Scotland.

Barometer in morning, highest, 30·5 ins. and more to 30·3 ins. over Scandinavia and Finland, and exceeding 30·0 ins. all over the Baltic and the northern portions of the North Sea and British Isles. Lowest, 29·8 ins. and less over a large part of the Mediterranean, the east of France, western and southern Germany, and in a shallow "V" over Belgium. Gradients moderate over the Baltic and North Sea, slight elsewhere. Rising over our Islands later, most in the north, falling over Italy and south Germany, and a definite depression appearing over Belgium.

Wednesday, 2nd March.

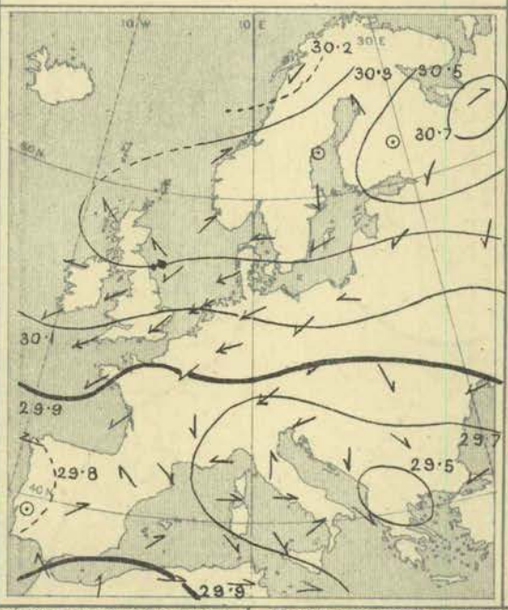
Temperature and Weather.

8 a.m.

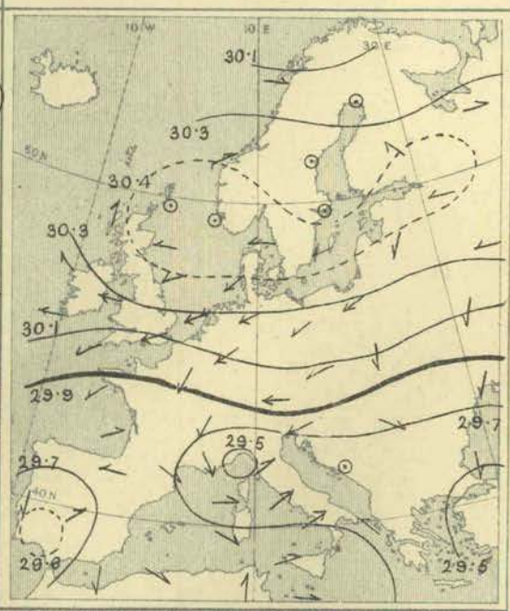


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright at many of the most northern stations, also over Algeria and several parts of the Mediterranean; changeable, unsettled, and winterly elsewhere; squally, with snow showers, in many parts of our Islands and some parts of central Europe, rainy at Lisbon. Snowfall very slight during day, but more general over the eastern and midlands parts of England than elsewhere. Rainfall heavy over the Iberian Peninsula later, and considerable over northern Italy and the south of Austria.

Temperature fallen again in most places; low for time of year, air very keen in our Islands. Morning readings still exceeding 50° over Portugal and on the western, southern, and eastern shores of the Mediterranean, and exceeding 40° over northern Italy, but below 40° over the south of France, and as low as 30° over the south-east of England. Lowest, −20° Fahr. to −5° over Finland and the north of Sweden, −1° at Archangel, +1° at Riga, 9° at Moscow, 11° at Stockholm, 16° to 17° over Finland, and below 30° over central Europe. Scarcely touching 32° over the south-east of England later, but rising to 40° and more in the extreme north-west and north of our Islands and in Norway, as well as in many parts of France, and exceeding 50° in south of France and in Italy, and touching 68° at several Algerian stations.

Wind North-Easterly to Easterly over all but the southern parts of Europe, blowing strongly over the North Sea and British Isles, and a gale on our east and south-east coasts; Northerly over the east of France, North-Westerly to Westerly over the Mediterranean, South-Easterly to Easterly over Algeria and Spain; Southerly, moderate, in the Hebrides and west of Norway. No important change in the northern countries, but in Italy the South-Westerly wind freshened and blew a gale at Rome. Over south Germany the Easterly wind increased.

Barometer (1) highest, 30·7 ins. and more to 30·1 ins. in a large anticyclone covering northern Europe, the Baltic, North Sea, and British Isles; (2) exceeding 29·9 ins. over Algeria and the south of Spain. Lowest, 29·5 ins. to 29·6 ins. over south-eastern Europe, the north of Italy, the south of France, and the Gulf of Genoa, and below 29·8 ins. over Portugal; a secondary disturbance found over the north of France. Rising slowly over the United Kingdom later falling over south-eastern Europe.

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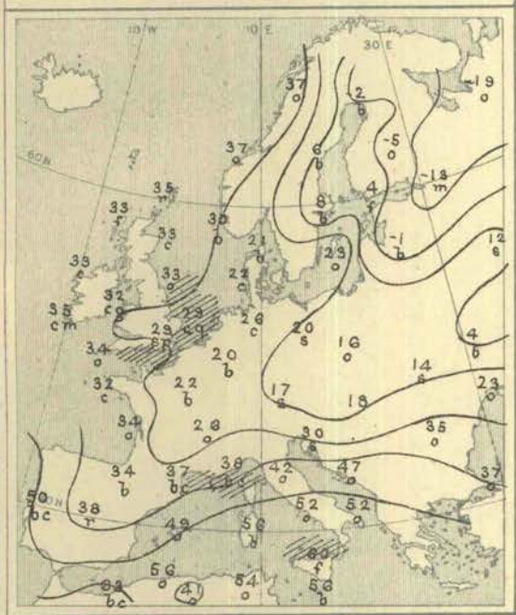
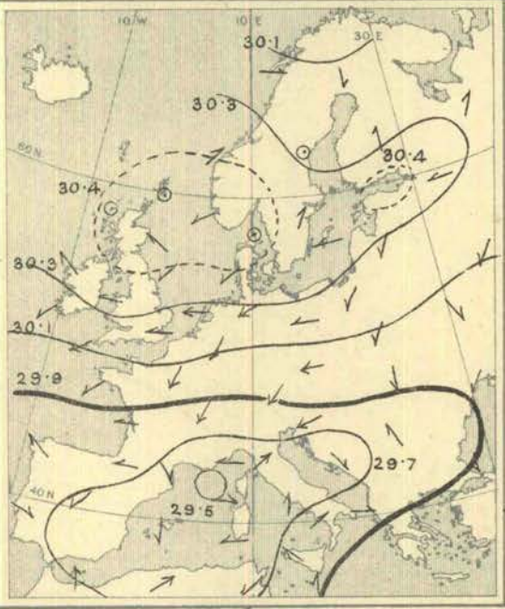
III.—SUMMARY OF WEATHER OVER EUROPE.

Thursday, 3rd March.

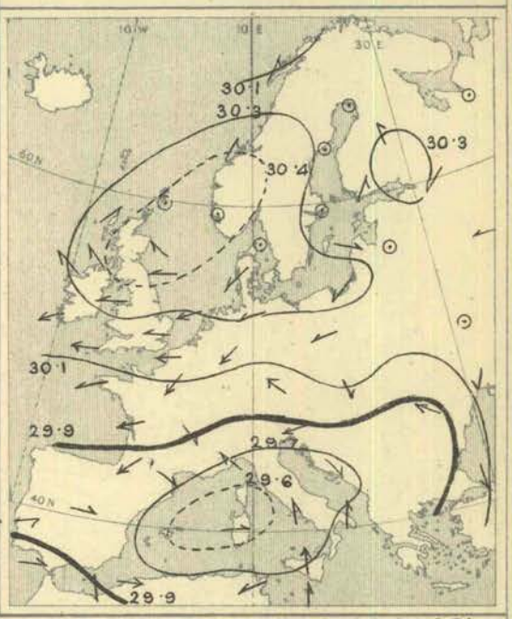
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over Sweden and the south of Norway, and fair at the northern stations generally; fine also over France and the western parts of Germany, as well as at the Algerian stations. Cloudy or overcast elsewhere, and very winterlike generally. Snow in the air over many parts of Russia, central Europe, and the British Islands, but the amount of fall during day scarcely appreciable, except at some Austrian stations. Rain at Nice, however, to amount of 0·3 in., and larger quantities at Rome and Naples.

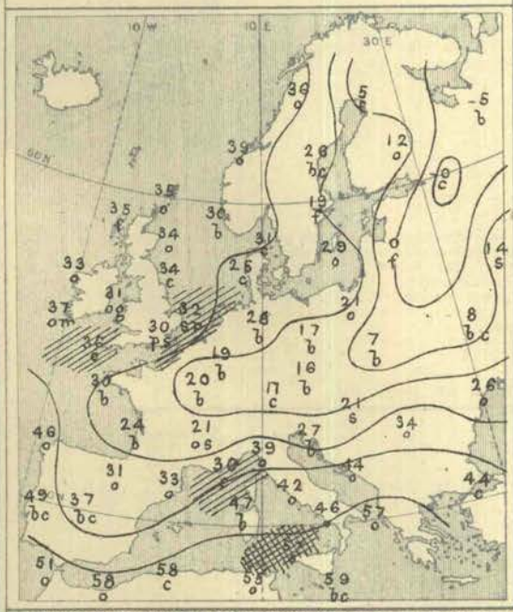
Temperature showing a further decrease over Spain, France, central and south-eastern Europe, air very keen; considerable rise over Morocco, and also over Finland and Lapland. Morning readings, 63° at Nemours, 60° at Palermo, and exceeding 50° over Algeria and south of Italy. Below 40° all over France and our Islands, much below the freezing point in most places, and as low as −19° Fahr. at Archangel, −13° at St. Petersburg, −1° at Riga, +4° at Kiev, 8° at Warsaw, and 16° to 23° over Germany. Rising to 40° at some Scotch and Norwegian stations later, but not exceeding 19° at Munich, nor 32° over our south-eastern counties; touching 48° at Nice.

Wind very light and variable over the extreme northern parts of Europe and the British Isles, Easterly to North-Easterly in almost all other parts of Europe, and blowing a fresh to strong breeze in many places. Westerly and variable on the southern side of the Mediterranean; South-Westerly, a moderate gale, at Leghorn. No change of importance in our Islands later, but gale at Leghorn subsiding; freshening South-Westerly wind setting in over the north-west of Norway, Southerly airs over Finland.

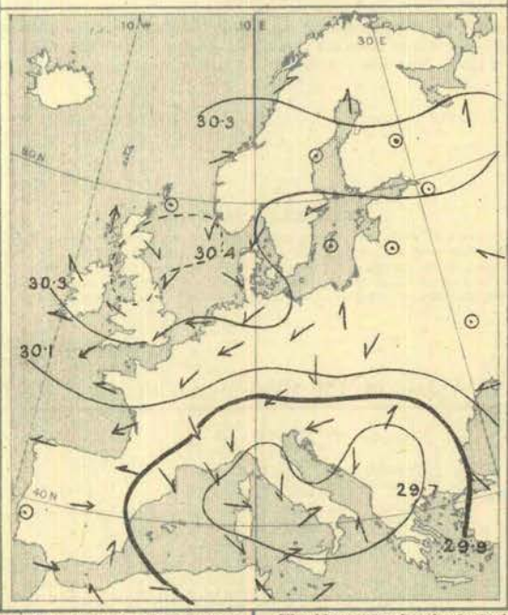
Barometer highest, 30·4 ins. and more to 30·3 ins. in a large anticyclone covering the northern halves of the British Isles and North Sea, and the whole of the Baltic; about 30·0 ins. over southern Russia. Lowest, 29·5 ins. to 29·7 ins. over the northern parts of the Mediterranean, northern Italy, and Dalmatia; gradients somewhat steep (for Easterly winds) over central Europe. Little change over the northern countries later, but depression over the Mediterranean inclined to move south-westwards.

Friday, 4th March.

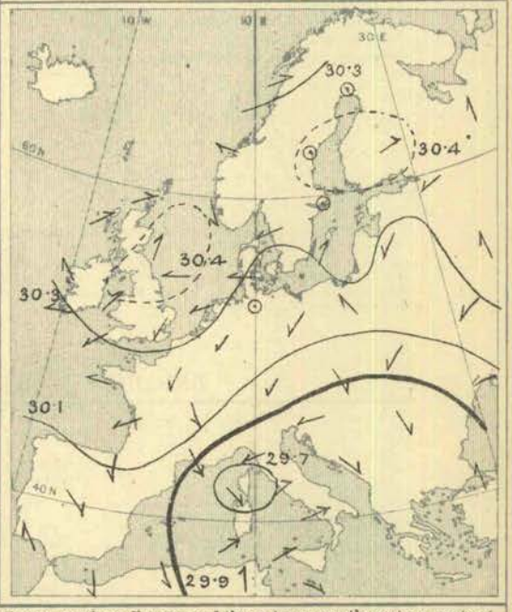
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair and quiet over the northern and eastern countries of Europe, clear in many places, cloudy in some, and rather foggy in others; less fair over the central and southern countries, where the sky was more cloudy, and snow fell in several places, fine over Algeria. Snow showers later over our north-eastern and south-eastern counties, as well as in Holland, south Germany, and some parts of France and Austria.

Temperature showing a further and considerable rise over northern Europe, but some fall in the south and south-east; readings very low generally. Morning values still exceeding 50° over Algeria and southern Italy, but below 40° at nearly every European station, and as low as (1) −10° Fahr. at St. Petersburg, −8° at Archangel, +5° at Haparanda, 12° at Helsingfors, 14° at Moscow; (2) 7° at Warsaw, 8° at Kiev, 11° at Kharkov; (3) 11° at Munich, 15° at Vienna, 17° at Berlin and Münster, and 20° at Paris; (4) 25° at Nairn, 29° at Oxford, and 30° to 32° at our other inland stations. Again rising to 40° and more at some Scotch and Norwegian stations, and to 43° at Nice; exceeding 50° in the south of France, and exceeding 60° in Algeria.

Wind becoming Southerly (light) over northern Europe, and the extreme north-western parts of the British Isles, calm over the Baltic, mainly Easterly to North-Easterly elsewhere, and blowing very freshly in the Channel and over France; North-Westerly, moderate, over the greater part of the Mediterranean, South-Westerly at Malta and Palermo, Southerly in the south of Italy. Becoming South-Westerly, strong, at Stornoway later, but remaining Easterly over England, France, and Germany.

Barometer highest, 30·4 ins. and more to 30·3 ins. in an anticyclone still covering the British Isles, the North Sea, and a great deal of Scandinavia and Finland; 30·0 ins. and more over Morocco and the south-west of Spain. Lowest, 29·6 ins., and less, to 29·7 ins. over the greater part of the Mediterranean and southern and south-eastern Europe; gradients somewhat steep over Germany, Austria, and France. Inclined to rise at the French and English stations later; no important change occurring elsewhere.

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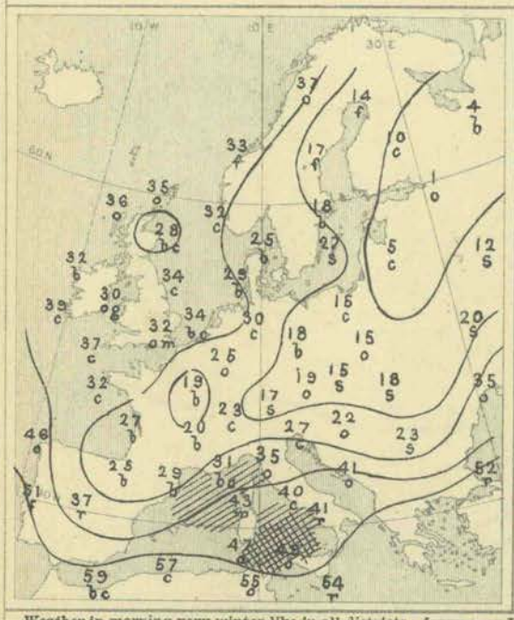
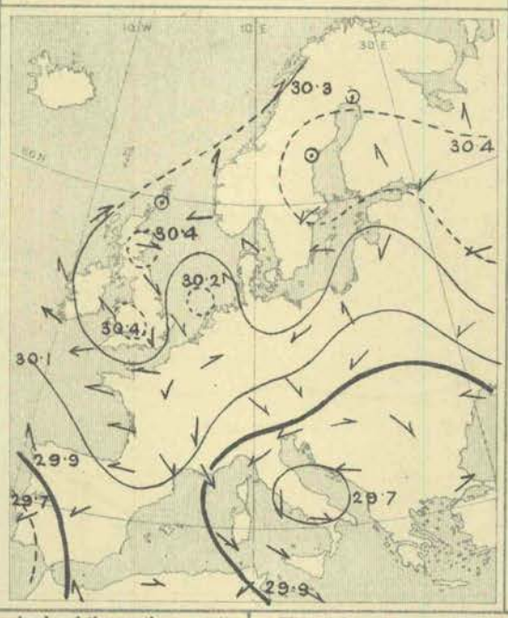
III.—SUMMARY OF WEATHER OVER EUROPE.

Saturday, 5th March.

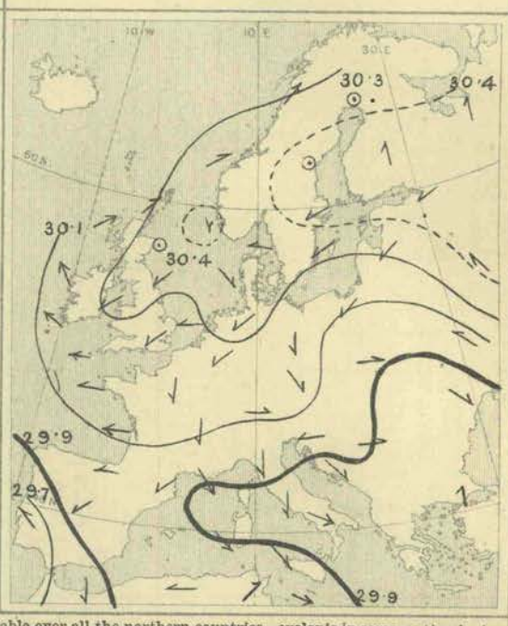
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very winter-like in all districts; foggy over Lapland and the northern parts of Scandinavia, fine and bright over many parts of our Islands, France, and Germany; dull and unsettled elsewhere, with snow at several stations in south-eastern Europe, rain at Madrid, Naples, Malta, and Constantinople. Snow showers during day on our eastern coasts, as well as well as in Holland, Germany, and Russia; rain over the Mediterranean and south-eastern Europe, the amounts reported being heavy at Leghorn and Lésina, very heavy at Constantinople.

Temperature low generally, especially over western Europe; less low over Russia than on most days recently. Morning readings exceeding 40° in the extreme south-west and south only, exceeding 50° at Malta, in Algeria, and the extreme south of the Peninsula; exceeding 35° in the west of our Islands, lower elsewhere. Ranging from 23° to 31° in the south of France and below 20° over central Europe and Russia. Lowest of all, −1° Fahr. at St. Petersburg, +5° at Riga, 12° at Moscow, 15° over eastern Russia, 17° at Munich, 19° at Paris, 20° at Nairn, 28° at Wick and Aberdeen. Failing to reach 40° in most parts of Europe during the day, but exceeding 55° in the southern parts of Italy and Portugal, and exceeding 70° in several parts of Algeria.

Wind light and extremely variable over all the northern countries—cyclonic in some, anticyclonic in others; North-Easterly to North-Westerly over Germany and France, Westerly in Austria, Easterly over the Bay of Biscay, North-Easterly over Spain; variable over Algeria, mainly North-Westerly, and fresh, over the Mediterranean, South-Westerly at Constantinople. Not much change later. The Southerly and South-Easterly winds recently observed in the extreme north-west continuing in force, but not spreading Eastwards.

Barometer highest, 30·4 ins. and more to 30·2 ins. In a large and complex anticyclone covering all the northern and north-western countries, and having its maximum over Finland and northern Russia. Lowest, (1) 29·7 ins. to 29·9 ins. in a complex depression covering south-eastern Europe and the eastern parts of the Mediterranean, and (2) 29·8 ins. and less in a new depression approaching the Peninsula from the south-westward. Latter system continuing to advance during day; that in the south-east undergoing some modification. Relative distribution of pressure not materially changed.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟿ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

The principal features in the meteorological conditions of this week have been high northern and low southern pressures—the dominant systems in the former regions being anticyclonic, in the latter cyclonic. The consequence has been a prevalence of very dry and keen Easterly winds over all the northern countries, accompanied by frequent showers of snow, while in the south the winds have been more commonly from the Westward, and large quantities of rain have fallen in many localities. As the week advanced the low-pressure systems moved south-eastwards, and on Saturday the Easterly to North-Easterly current had become general, with temperatures much below the average all over Europe. There were, however, at that time, some touches of a South-Westerly wind spreading over the more northern countries, but these were not of a very decided character.

BRIGHT SUNSHINE Values for the Week in addition to those found on page 50.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	7·5	?	10	?	EASTBOURNE	12·2	?	16	?
OSWALDKIRK (Yorkshire)	10·5	?	14	?	TENBY	32·5 *	?	43*	?
WORKSOP	2·5	−15·7	3	−22	NEWQUAY	33·7	?	44	?
THURCASTON (Leicestershire)	2·8	−13·9	4	−18	TORQUAY	18·1 *	?	24*	?
MARGATE	6·1	?	8	?	ARLEY COTTAGE (County Cavan)	17·9	?	24	?
BRIGHTON	20·6	?	27	?	GUERNSEY	15·2 *	?	20*	?

* The values at Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

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VOL. IX. No. 10.] *Third Series.* WEEK ENDING SATURDAY, 12TH MARCH, 1892. [*Price 6d.* [*Annual subscription, post paid*, £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years' observations (1871-90). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the ten years 1881-90. RAINFALL.—*The Mean amounts* are those for the corresponding periods in the twenty-five years 1866-90, but the *Mean numbers of Rainy Days* are those for the ten years 1881-90, only. BRIGHT SUNSHINE.—*The Mean values* employed are those for the corresponding periods in the ten years 1881-90.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 56.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1892. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	46	15	38·2	24·4	31·1	8 below.	0	− 6	76	+42	46	−17	498	+154
	1. SCOTLAND, EAST	46	13	38·3	24·8	31·4	7 below.	0	−13	74	+40	57	−33	537	+154
	2. ENGLAND, N.E.	43	20	34·6	27·5	31·5	8 below.	0	−13	71	+40	56	−25	480	+132
	3. ENGLAND, EAST	41	10	36·9	24·0	30·3	10 below.	0	−17	82	+48	55	−37	543	+149
	4. MIDLAND COUNTIES	43	16	37·3	24·5	30·8	10 below.	0	−17	79	+47	72	−37	533	+151
	5. ENGLAND, SOUTH	44	19	38·1	26·1	31·9	10 below.	0	−19	71	+45	84	−43	407	+106
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	46	19	39·0	27·6	33·1	7 below.	0	−11	62	+36	66	−29	403	+122
	7. ENGLAND, N.W.	43	17	36·5	27·1	31·6	9 below.	0	−12	73	+47	53	−36	411	+123
	8. ENGLAND, S.W.	47	12	39·6	27·3	33·3	9 below.	0	−19	61	+31	103	−55	327	+106
	9. IRELAND, NORTH	45	16	40·2	27·3	33·6	8 below.	0	−17	59	+36	76	−64	340	+ 95
	10. IRELAND, SOUTH	47	21	41·5	29·0	35·1	9 below.	0	−23	48	+30	126	−78	284	+ 99
	— CHANNEL ISLANDS	45	28	41·6	32·4	36·8	8 below.	0	−23	36	+28	162	−47	147	+ 54

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 56.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1892. Number of Rainy Days.	Difference from Mean.	Total Fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1892. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of In.	10ths of In.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	6	4 less.	51	0	10·0	− 1·3	26	+ 5	33	+ 8	128	+14	21	+ 2
	1. SCOTLAND, EAST	5	5	1 less.	40	+ 2	4·8	− 1·3	23	+ 3	30	+ 3	130	−23	21	− 4
	2. ENGLAND, N.E.	5	5	1 more.	41	+ 5	3·7	− 0·6	24	+ 2	30	+ 2	132	+ 8	21	+ 1
	3. ENGLAND, EAST	4	3	1 less.	40	+ 4	3·1	− 1·2	21	− 4	27	− 4	133	−19	21	− 3
	4. MIDLAND COUNTIES	3	2	2 less.	38	+ 3	3·6	− 1·5	24	+ 4	30	+ 3	134	− 1	21	0
	5. ENGLAND, SOUTH	2	2	3 less.	32	− 2	2·8	− 2·6	30	+ 6	37	+ 6	155	+20	23	+ 2
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	2	2	7 less.	40	− 3	7·3	− 4·3	32	+ 9	42	+15	149	+27	24	+ 5
	7. ENGLAND, N.W.	3	4	2 less.	38	− 1	5·6	− 0·9	26	+ 6	34	+ 8	149	+22	23	+ 3
	8. ENGLAND S.W.	3	3	4 less.	41	+ 1	5·5	− 3·1	36	+10	46	+11	194	+34	29	+ 5
	9. IRELAND, NORTH	4	4	2 less.	42	− 3	5·4	− 1·8	30	+11	38	+12	137	+ 6	21	0
	10. IRELAND, SOUTH	3	2	5 less.	39	− 3	6·6	− 2·0	38	+14	48	+17	160	− 2	25	0
	— CHANNEL ISLANDS	2	3	3 less.	44	− 1	6·2	− 0·8	42	+19	54	+24	161	−37	24	− 6

Bright Sunshine.—For several of the stations there are no "mean" values available, and the "difference from the mean" in some of the districts is consequently that of only a few of the stations.

General Remarks.

Weather during this period continued extremely cold and wintry, with frequent, but not generally heavy, falls of snow in the eastern and north-eastern parts of Great Britain, and occasional slight snow showers elsewhere. Many intervals of fine bright weather were, nevertheless, experienced in all parts of the Kingdom, especially in the west and south-west.

Temperature was exceedingly low for the time of year, the deficit varying from 7° in Scotland E. and W. to as much as 10° in the Midland Counties and England S. and E. The highest of the maxima were recorded on the 8th in Scotland and Ireland and on irregular dates in England; they ranged from 47° in Ireland S. and England S.W. to 41° in England E. The lowest of the minima were registered at most stations either on the 9th or 10th, when the thermometer fell to 10° in England E., 12° in England S.W., 13° in Scotland E., and to between 15° and 21° in all other districts, except the Channel Islands, where it did not fall below 28°.

Rainfall (melted snow) was a little more than the mean in England N.E., but less in all other districts.

Bright Sunshine exceeded the mean very generally, and was more prevalent than for many weeks past. The percentage of the possible duration ranged from 54 in the Channel Islands, 48 in Ireland S., 46 in England S.W., and 42 in Scotland W., to 27 in England E.

Barometer and Wind.—At the commencement of the period the barometer was highest in the north-east, and lowest in the south-west and south, the gradients for North-Easterly and Easterly winds being slight or moderate. As the week progressed, however, pressure became highest in the west, and some depressions appeared off the north of Scotland. One of these systems during the 9th and 10th travelled south-south-eastwards immediately over our Islands, causing strong Northerly winds in the west and freshening South-Westerly to Westerly winds in the south. By the end of the week this system had disappeared and the barometer had become highest in the north, but, owing to the advance of a rather important depression from Germany to the North Sea, the barometer was falling decidedly over the east of England, and gradients for North-Easterly and Northerly winds were increasing.

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II.—DATA from which the SUMMARY on page 55 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	42	23	39·1	29·4	34·1	− 4·1	0	55	7	0·75	+0·07	*	*	*	*
	Stornoway	41	20	37·4	26·4	31·7	− 7·7	0	72	7	0·56	−0·34	26·1	+ 5·3	34	+ 8
	Wick	42	20	39·9	26·0	32·7	− 6·2	0	65	4	0·29	−0·19	*	*	*	*
	Lairg ℌ	46	15	39·4	19·5	29·2	− 8·4	0	90	6	0·58	−0·12	*	*	*	*
	Glencarron ℌ	40	18	36·4	22·0	29·0	− 8·5	0	91	4	0·97	−0·43	*	*	*	*
	Fort Augustus ℌ	41	16	38·2	21·3	29·5	− 9·2	0	88	5	0·47	−0·26	20·8	?	27	?
	Fort William ℌ	39	21	37·3	25·9	31·4	− 8·4	0	74	3	0·33	−1·19	30·2	?	39	?
1. SCOTLAND, E.	Nairn	44	13	39·3	21·9	30·3	− 8·9	0	82	6	0·79	+0·41	*	*	*	*
	Aberdeen	44	23	38·1	27·3	32·5	− 7·1	0	67	5	0·62	+0·13	25·1	+ 2·1	32	+ 2
	Braemar ℌ	36	16	33·1	21·4	27·3	− 8·5	0	103	5	0·08	−0·50	21·0†	?†	27†	?†
	Ochtertyre ℌ	46	21	41·9	25·6	33·1	− 5·5	0	62	5	0·10	−0·50	*	*	*	*
	Leith	44	25	41·0	27·9	34·3	− 6·5	0	54	4	0·35	+0·03	*	*	*	*
	Marchmont ℌ	42	22	37·4	24·9	31·0	− 7·3	0	77	4	0·83	+0·25	24·8	?	32	?
2. ENGLAND, N.E.	Alnwick Castle	39	27	36·3	29·0	32·5	− 6·8	0	67	5	0·80	+0·28	*	*	*	*
	Durham	43	24	37·5	25·8	31·5	− 8·1	0	74	5	0·58	+0·13	20·7	− 1·8	27	− 1
	Shields	40	25	36·9	26·9	31·8	− 8·4	0	71	3	0·44	+0·04	*	*	*	*
	Scarborough ℌ	37	24	35·6	28·8	32·1	− 8·5	0	69	5	0·39	−0·04	*	*	*	*
	York	40	20	37·7	25·6	31·5	− 8·8	0	74	5	0·52	+0·12	24·5	+ 4·5	31	+ 5
	Spurn Head	38	25	35·6	28·7	32·1	− 8·0	0	69	5	0·45	+0·17	*	*	*	*
3. ENGLAND, E.	Hillington ℌ	41	10	38·2	23·5	30·6	− 9·9	0	80	4	0·32	−0·08	23·8	+ 1·3	30	+ 2
	Yarmouth	37	18	34·7	26·0	30·2	− 9·2	0	83	4	0·41	−0·03	*	*	*	*
	Geldeston	40	15	36·8	22·6	29·5	−11·2	0	88	4	0·22	−0·14	18·6	− 6·4	24	− 8
	Cambridge ℌ	41	20	38·6	23·6	30·9	− 9·9	0	78	4	0·26	−0·09	18·7	− 5·2	24	− 6
	Rothamsted	40	19	36·4	24·1	30·1	− 9·9	0	83	2	0·13	−0·28	22·8	?	29	?
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	43	23	38·4	25·1	31·6	− 8·9	0	73	3	0·12	−0·28	*	*	*	*
	Loughborough	40	20	38·1	24·9	31·3	− 9·7	0	75	3	0·22	−0·16	*	*	*	*
	Stamford (Ketton Hall)	42	19	39·3	24·9	31·9	− 9·1	0	71	3	0·13	−0·17	*	*	*	*
	Cheadle ℌ	37	21	34·5	23·7	28·9	−10·5	0	92	3	0·38	−0·19	*	*	*	*
	Churchstoke ℌ	39	17	35·9	21·5	28·5	−11·3	0	95	3	0·41	−0·07	27·8	+ 6·0	35	+ 7
	Hereford ℌ	42	22	37·7	25·9	31·6	−10·1	0	73	3	0·06	−0·34	*	*	*	*
	Cirencester	39	16	36·6	23·3	29·8	−10·0	0	85	3	0·10	−0·39	27·6	+ 4·2	35	+ 5
	Oxford	41	24	37·6	26·4	31·8	− 9·5	0	71	1	0·08	−0·30	22·7	0·0	29	0
5. ENGLAND, S.	London	40	22	38·1	26·7	32·2	− 9·6	0	69	2	0·20	−0·15	13·7†	− 3·0†	17†	− 4†
	North Foreland	40	25	35·6	28·1	31·7	− 9·1	0	73	3	0·14	?	*	*	*	*
	Strathfield Turgiss ℌ	41	20	37·8	25·3	31·4	− 9·7	0	74	2	0·11	−0·28	*	*	*	*
	Dungeness	43	19	38·6	24·7	31·4	− 9·8	0	74	2	0·24	−0·18	*	*	*	*
	Hastings (St. Leonards)	41	21	37·3	25·8	31·4	−10·5	0	74	2	0·21	−0·24	34·8	+ 6·2	44	+ 9
	Southampton	44	23	40·7	25·8	33·0	− 9·6	0	63	3	0·18	−0·30	34·8	+ 9·1	44	+11
	Hurst Castle	42	24	39·6	27·3	33·3	− 8·7	0	61	2	0·04	−0·39	*	*	*	*
	Stowell ℌ	41	20	37·1	24·7	30·7	−10·1	0	79	3	0·14	?	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	46	22	39·7	26·0	32·7	− 8·2	0	65	3	0·41	−1·09	*	*	*	*
	Glasgow	41	25	38·1	29·0	33·4	− 6·8	0	60	5	0·10	−0·50	29·9	+12·9	38	+17
	Ardrossan	44	26	39·9	29·1	34·3	− 6·7	0	54	1	0·01	−0·55	*	*	*	*
	Glenlee ℌ	41	19	38·3	25·1	31·5	− 7·4	0	74	2	0·38	−0·50	*	*	*	*
	Douglas (Isle of Man)	43	26	38·9	28·9	33·8	− 7·4	0	57	1	0·08	−0·60	34·9	+ 9·9	45	+14
7. ENGLAND, N.W.	Newton Reigny	38	20	34·6	24·4	29·3	− 9·5	0	89	3	0·38	−0·15	24·6	+ 3·6	32	+ 6
	Stonyhurst	38	17	35·5	26·2	30·7	− 9·1	0	79	3	0·52	−0·28	27·5	+ 7·1	35	+ 9
	Blackpool ℌ	40	24	37·7	28·4	32·9	− 7·8	0	64	3	0·28	−0·14	26·9	+ 7·0	34	+ 9
	Manchester	38	20	35·4	24·1	29·6	−10·6	0	87	4	0·42	−0·13	*	*	*	*
	Liverpool Obsy. (Bidston)	39	27	36·2	29·0	32·5	− 9·0	0	67	4	0·44	+0·04	*	*	*	*
	Llandudno ℌ															
	Holyhead	43	29	39·4	30·4	34·8	− 7·9	0	50	3	0·07	−0·48	*	*	*	*
8. ENGLAND, S.W.	Llandovery	44	12	40·1	21·4	30·5	−11·6	0	81	3	0·20	−0·65	*	*	*	*
	Pembroke	42	29	39·1	29·9	34·4	− 8·2	0	53	3	0·11	−0·47	40·4	+13·7	51	+17
	Arlington (N. Devon)	39	24	36·6	25·7	31·0	− 9·8	0	77	3	0·26	−0·62	*	*	*	*
	Cullompton ℌ	43	21	39·0	24·4	31·5	−10·4	0	74	2	0·15	−0·47	30·1	+ 5·7	38	+ 7
	Falmouth	47	29	41·5	32·1	36·7	− 7·0	0	37	3	0·21	−0·59	34·9	+ 7·5	44	+10
	Plymouth	42	26	35·8	28·8	34·1	− 9·6	0	55	3	1·23	+0·63	33·6	+ 6·2	43	+ 8
	Prawle Point	46	26	40·9	28·9	34·7	− 8·0	0	51	4	0·17	−0·27	*	*	*	*
9. IRELAND, N.	Malin Head	41	27	39·4	29·9	34·5	− 7·9	0	53	3	0·11	?	*	*	*	*
	Londonderry												*	*	*	*
	Mullaghmore	43	27	40·7	30·0	35·2	− 7·7	0	48	3	0·29	−0·39	*	*	*	*
	Belmullet	44	28	41·7	30·1	35·7	− 8·4	0	44	6	0·59	?	*	*	*	*
	Markree Castle	44	20	41·0	24·6	32·6	− 8·9	0	66	3	0·49	−0·18	31·3	+16·3	40	+13
	Brookeborough	45	16	40·9	23·4	31·9	− 8·4	0	71	3	0·52	−0·13	*	*	*	*
	Armagh	44	20	38·8	24·6	31·5	− 9·3	0	74	4	0·31	−0·18	28·4	+ 8·7	36	+11
	Donaghadee	45	25	40·0	31·1	35·4	− 6·4	0	46	4	0·29	−0·19	*	*	*	*
	Edgeworthstown	41	21	39·4	24·9	31·9	− 8·9	0	71	2	0·30	−0·35	*	*	*	*
10. IRELAND, S.	Dublin	44	24	39·4	28·2	33·6	− 9·5	0	59	3	0·22	−0·28	43·1	+19·4	55	+25
	Parsonstown	46	21	40·9	25·6	33·0	− 8·9	0	63	2	0·16	−0·37	38·3	+14·6	48	+18
	Kilkenny	44	21	40·4	26·9	33·5	− 9·3	0	60	2	0·11	−0·39	*	*	*	*
	Waterford	45	24	40·5	28·0	34·1	− 9·7	0	55	3	0·08	−0·62	*	*	*	*
	Roche's Point	46	29	41·9	31·6	36·6	− 8·0	0	38	2	0·11	−0·77	*	*	*	*
	Valencia	47	31	43·9	33·6	38·6	− 6·8	5	30	3	0·44	−0·55	32·3	+ 5·3	41	+ 7
	Killarney	45	24	42·7	29·5	35·9	− 8·4	2	43	3	0·52	?	*	*	*	*
	Foynes	45	22	42·3	28·6	35·3	− 8·1	1	46	2	0·17	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	45	33	41·7	34·3	37·9	− 8·0	0	29	2	0·10	−0·45	*	*	*	*
	Jersey	45	28	41·4	30·4	35·7	− 8·5	0	44	2	0·43	−0·15	49·7	+18·7	63	+24

Stations marked ℌ are in connection with the Royal Meteorological Society, and those marked ℌ with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

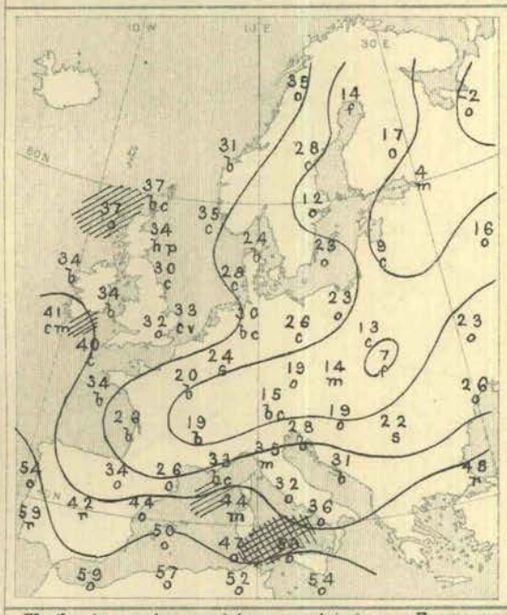
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory and the Meteorological Office, Victoria Street. For additional Reports of Sunshine see last page.

III.—SUMMARY OF WEATHER OVER EUROPE.

Sunday, 6th March.

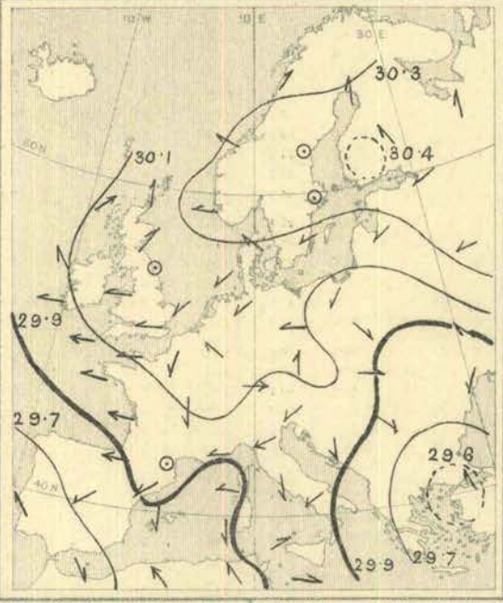
Temperature and Weather.

8 a.m.

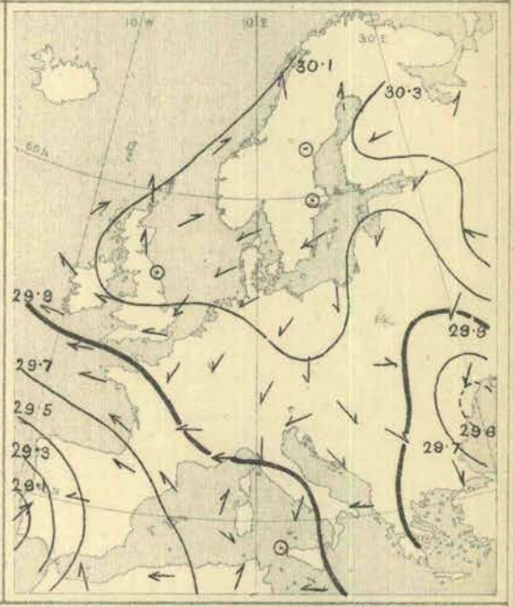


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning remaining very wintery over Europe generally. Dry in most places, but cloudy and dull in many, and bright in very few; hail showers in the east of Scotland, snow in some parts of France and northern Italy, rain over the southern half of Spain and at Constantinople. Snow showers on our north-east and east coasts and in the Netherlands later, considerable rain in some parts of southern Europe.

Temperature continuing very low, but inclined to rise in some parts of Russia. Morning readings exceeding 50° on southern side of the Mediterranean and on the Atlantic coasts of the Peninsula only; exceeding 40° in the extreme south-west of our Islands, and exceeding 30° over the United Kingdom generally, but much below the freezing point over the inland parts of the Continent, and as low as (1) −2° at Archangel, +4° at St. Petersburg, 5° at Hangö, 14° at Hernösand, 16° at Moscow; (2) 7° at Lemberg, 14° at Breslau, 15° at Cracow and Munich, and 19° at Lyons. Slightly exceeding 40° over most of the western and northern parts of our Islands and the west and south of France later, but failing to reach 30° in many parts of Germany. Rising fast, however, over southern Europe, and exceeding 60° in some parts of Spain and Italy.

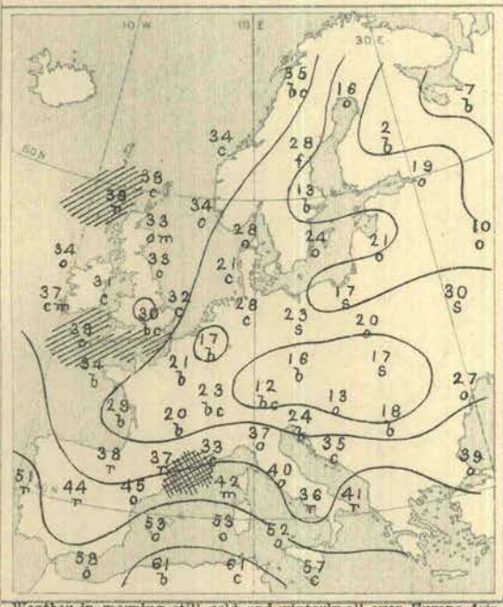
Wind (1) very light and anticyclonic over the extreme northern countries; (2) North-Easterly to Easterly, light, over the Baltic and North Sea; Easterly, light to moderate over England, fresh over the Bay of Biscay; South-Easterly in Ireland, and Southerly to South-Westerly in the north of Scotland and the adjacent islands; (3) South-Easterly to North-Easterly over Spain and Algeria. Very variable over the Mediterranean, light and cyclonic over south-eastern Europe. Increasing greatly in force over the Peninsula and Bay of Biscay later, and blowing a gale from the South-Eastward in Portugal.

Barometer highest, 30·4 ins. and more to 30·2 ins. in a large anticyclone still covering the northern countries of Europe. Lowest, 29·6 ins. and less in a depression lying over Turkey, and 29·7 ins. and less in a new (and apparently large) one approaching the Spanish Peninsula from the South-Westward. Turkish depression subsequently moving north-eastwards across the Black Sea; disturbance to south-westward of the Peninsula advancing quickly towards the Portuguese coasts.

Monday, 7th March.

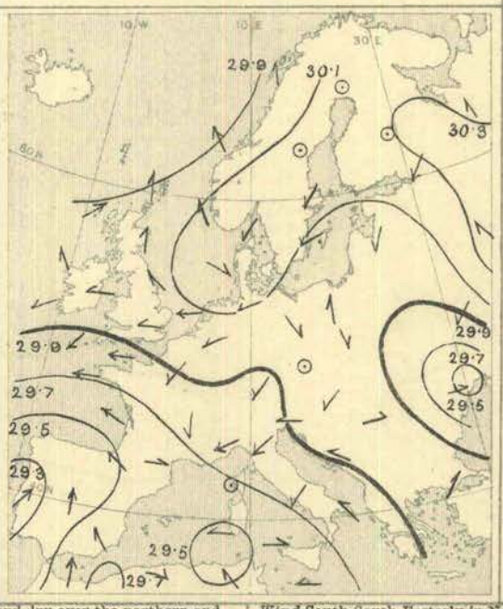
Temperature and Weather.

8 a.m.

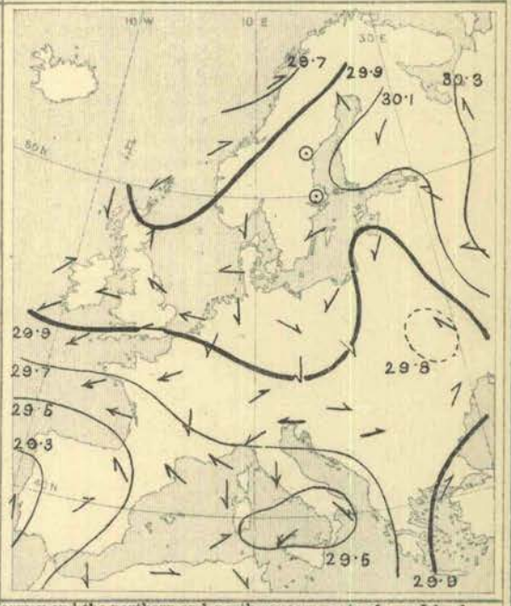


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning still cold and winterly all over Europe, fair and dry over the northern and north-western countries, clear and bright over France, south Germany, and Algeria; unsettled elsewhere. Snow falling at many stations in southern Russia and north Germany; rain over the Iberian Peninsula. Considerable fall of wet snow and cold rain in the northern parts of Scotland and Ireland later, and of rain over southern Europe (0·9 in. at Lisbon and 0·7 in. at Cape Bearn).

Temperature risen over southern and western Russia, also over several parts of southern Europe, but still low everywhere. Morning readings exceeding 50° on the southern shores of the Mediterranean generally, as well as on the western and northern coasts of the Peninsula; much lower elsewhere. Lowest, (1) −5° at Archangel, +2° at Kuopio, and 10° to 16° over the inland and northern parts of Russia generally; (2) 12° at Munich, 13° at Buda-Pesth, 16° at Prague, 17° at Brussels, and 20° to 25° over central France; (3) 30° to 34° over Great Britain and central Ireland. Slightly exceeding 40° later on our most western and northern coasts, and rising to between 35° and 40° over the Kingdom generally; rising rather higher in the west and south of France, and exceeding 60° in some parts of Spain and southern Italy.

Wind South-South-Easterly in Norway and the northern and north-western parts of our Islands, light to strong in force; very variable and light over the Baltic and North Sea; Easterly over Holland, England, France, the Bay of Biscay, and the northern half of the Mediterranean; Southerly over the greater part of Spain. A well-marked cyclonic circulation prevalent over southern Russia and the Black Sea. The South-South-Easterly wind giving way in Scotland later, no important change over the more southern countries.

Barometer highest, 30·3 ins. and more to 30·2 ins. in an anticyclone over the northern half of Russia, and exceeding 30·0 ins. over Scandinavia, the North Sea, the north and east of England, and north Germany; apparently exceeding 30·0 ins. over Asia Minor and European Turkey also, and exceeding 29·7 ins. over some parts of Algeria. Lowest, (1) 29·9 ins. and less off our extreme north-west coasts and the west of Norway; (2) 29·3 ins. and less in a depression off the coast of Portugal; (3) 29·5 ins. and less in a third system on the southern side of the Mediterranean, and 29·5 ins. and less in a fourth lying over southern Russia. Disturbance in extreme north-west apparently breaking up later and moving north-eastwards.

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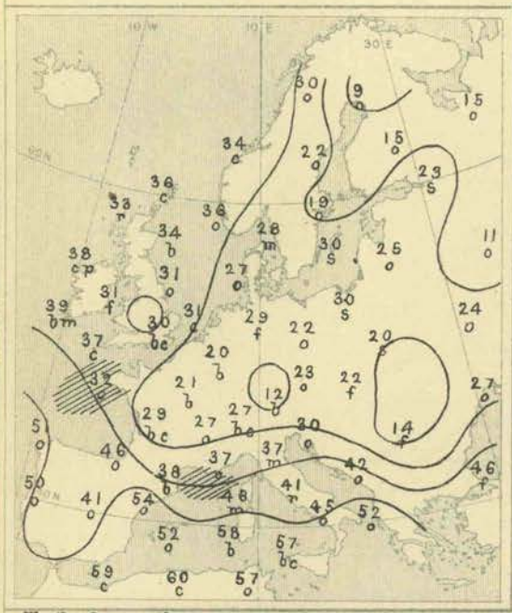
III.—SUMMARY OF WEATHER OVER EUROPE.

Tuesday, 8th March.

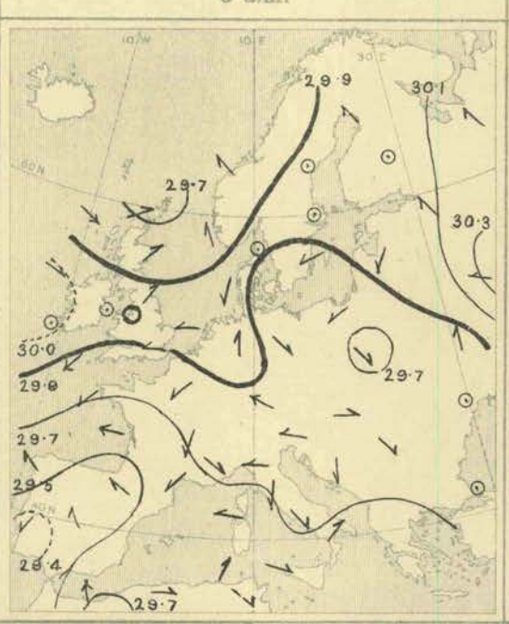
Temperature and Weather.

8 a.m.

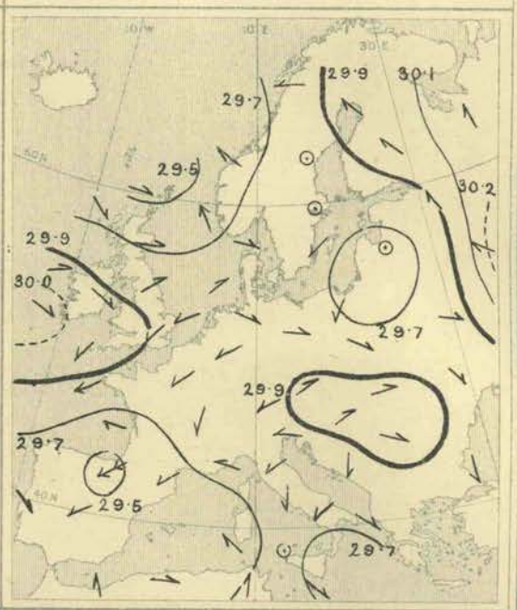


Barometer and Wind.

8 a.m.



6 p.m.



Weather fine over the greater part of Ireland and Scotland, as well as in France, Belgium, and the west and south of Germany. Cloudy or overcast elsewhere, with snow over Poland, the Baltic, and the Gulf of Finland, as well as at Spurn Head and the Helder. Sky clearing later over the southern parts of the United Kingdom, but snow showers falling at several of the more northern stations. Lunar halos seen at night over the south of England. Thunderstorm occurring at La Calle.

Temperature highest, 60° at Algiers, 59° at Oran, 58° at Cagliari, and 57° at Oporto, Palermo, and La Calle; reaching 50° or more at nearly all the Mediterranean stations, as well as on the coasts of the Iberian Peninsula. Lowest, 8° at Haparanda and Uleaborg, 11° at Moscow, 12° at Munich, and 15° at Archangel and Kuopio; below the freezing point in almost all but the southern European countries, but a little above it at some of our own extreme western and northern stations, as well as in the west of Norway. Daily maxima below 35° in the south-east of England, but thermometer exceeding 40° in the west and north, exceeding 50° in the west and south of France, and reaching 60° or more in Spain and the south of Italy.

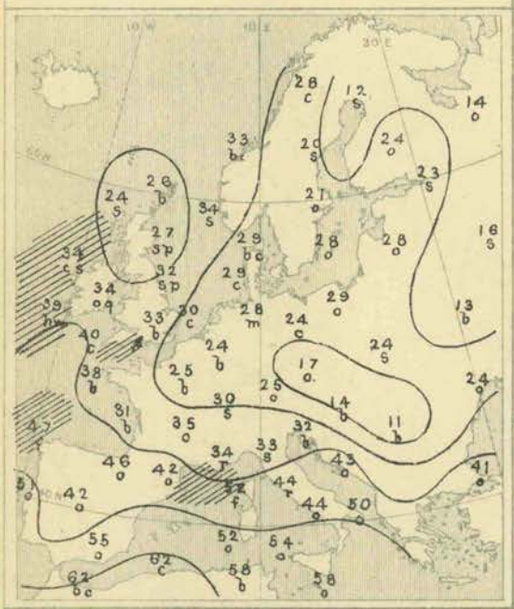
Wind moderate to fresh from the Eastward over the Channel, the Bay of Biscay, and the north of Spain; light from the North-Eastward over the central parts of France, and light from the Northward in Ireland. Light from West or South-West over Scotland, and from South or South-East in the west of Norway. Easterly or North-Easterly over the northern parts of Russia, North-Easterly or Northerly over the Baltic, North-Westerly or Westerly over Poland and Austria. Chiefly Northerly in Italy, but Southerly at the Algerian stations. Westerly winds subsequently spreading southwards over all the more northern parts of the United Kingdom; no important change occurring elsewhere.

Barometer highest, 30·3 ins. and upwards in an anticyclone lying over central Russia; 30·0 ins. in another system lying over Ireland; irregularly-shaped "col" extending across England, the North Sea, Denmark, and Sweden to northern Russia. Lowest, 29·4 ins. and less in a depression lying over the south-west of Spain; 29·7 ins. and less in two other systems—one lying off the north of Scotland and the other over Poland. Depression in north subsequently spreading southwards over the United Kingdom, and barometer falling briskly at all but our southern stations.

Wednesday, 9th March.

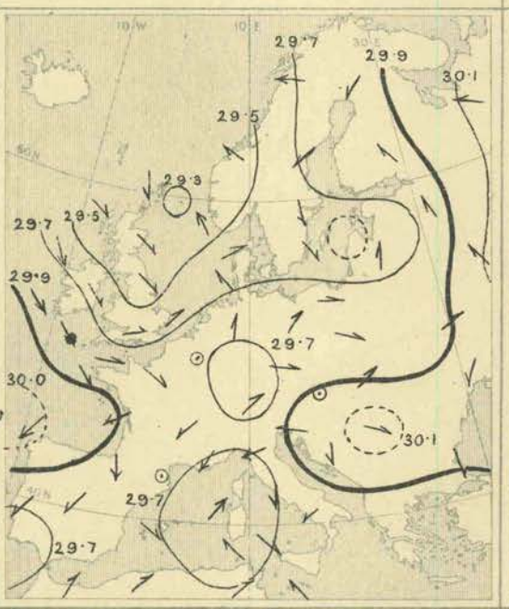
Temperature and Weather.

8 a.m.

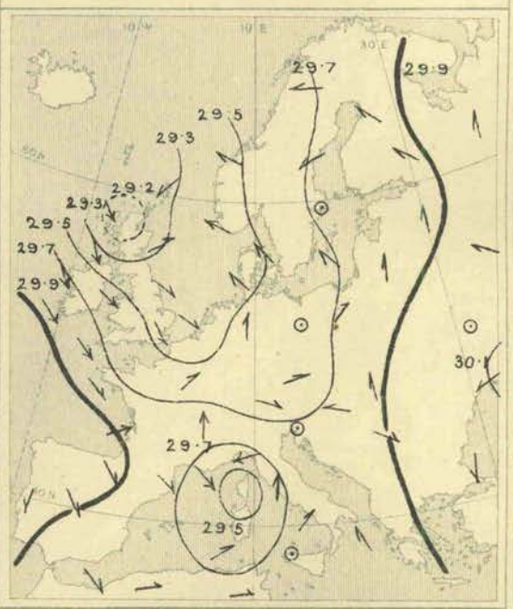


Barometer and Wind.

8 a.m.



6 p.m.



Weather fine and bright over France, the Netherlands, and the extreme south of England, as well as in Austria and Algeria. Cloudy or overcast elsewhere, with snow in many parts of the United Kingdom, as well as over Sweden, Russia, and northern Italy. Heavy snow squalls setting in later over the south of England and some parts of France. Heavy rain falling in the north of Italy.

Temperature highest, 62° at Nemours and Algiers, 59° at Oran, 58° at La Calle and Tunis; above 50° at most of the Mediterranean stations, but considerably below 40° over the Riviera and northern Italy. Lowest, 11° at Hermanstadt, 12° at Haparanda, 13° at Kiev, 14° at Archangel, and Buda-Pesth, and 16° at Moscow. Considerably below the freezing point in most parts of northern, eastern, and central Europe, as well as in Scotland, slightly below it at many of the English and Irish stations. Daily maxima below 40° in all but the extreme southern parts of the United Kingdom, but thermometer exceeding 45° in the west of France, exceeding 50° in most parts of southern Europe, and exceeding 60° over the southern parts of Spain and Italy.

Wind strong from the North-Westward on our own western and south-western coasts, and light or moderate from the same quarter in the north and east of Scotland, but South-Westerly in the east and south-east of England, and Southerly or South-Easterly on the eastern shores of the North Sea. Light from the South-Eastward in Russia and from the Northward over Sweden. Variable over central Europe, but light from the Northward in France, and moderate from the North-Eastward over the greater part of Spain and Italy; chiefly Southerly in Algeria. Subsequently veering to the North-Westward over the south-eastern parts of England.

Barometer highest, 30·1 ins. and upwards in a large anticyclone lying over Russia, 30·0 ins. and upwards in another system lying to the north-westward of Spain. Lowest, 29·3 ins. and less in a small depression near the Shetlands; 29·6 ins. and less in another lying over the Baltic Provinces; 29·7 ins. and less in two larger systems lying respectively over Germany and the western part of the Mediterranean. Numerous small disturbances, subsidiary to the depression in the north, travelling south-eastwards across our Islands during day, and well-defined system, with readings below 29·2 ins., advancing over our northern districts at night.

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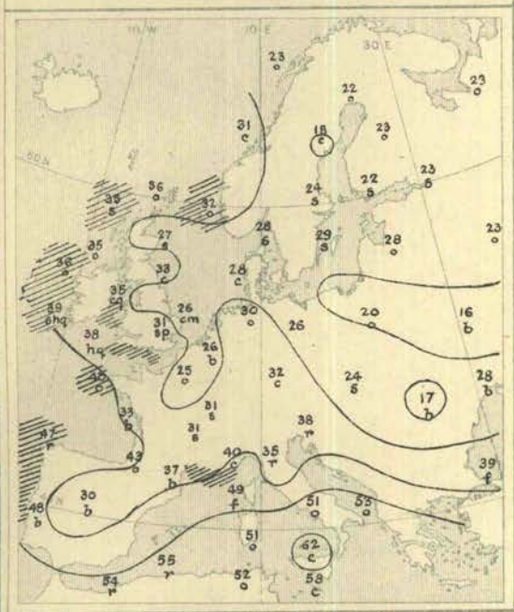
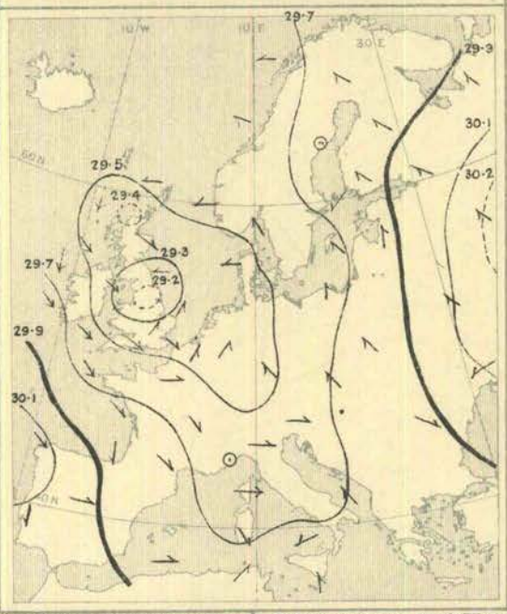
III.—SUMMARY OF WEATHER OVER EUROPE.

Thursday, 10th March.

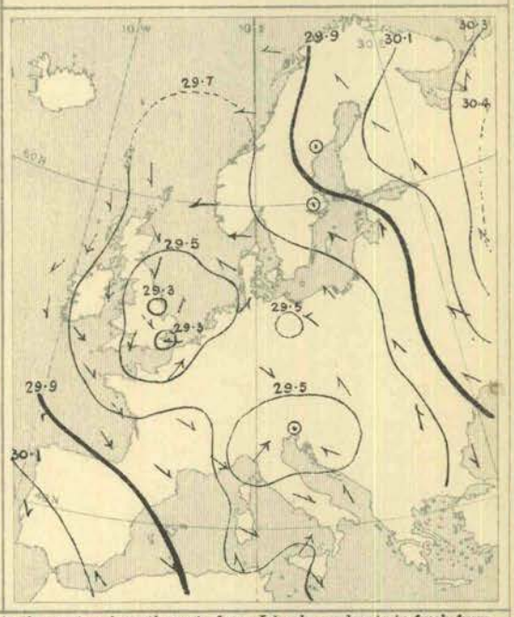
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather very unsettled over the United Kingdom, with snow in many parts of England, as well as at some of the Irish and Scotch stations. Cloudy over the greater part of the Continent, with snow in many places, and with rain in Algeria and the northern parts of Spain and Italy. Fine and bright in the south of Russia, and also in the central and southern parts of the Iberian Peninsula. Some improvement taking place over our Islands later, but thunder and lightning occurring at Wick and Shields at night. Snow falling at many of the French stations.

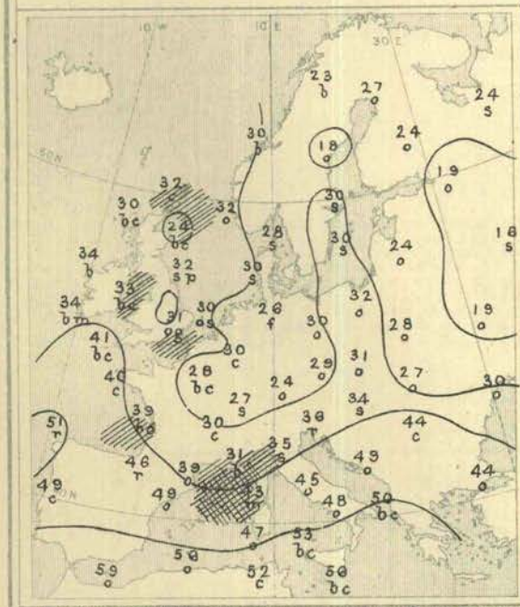
Temperature highest, 62° at Palermo, 58° at Malta, 57° at Oran, and 55° at Algiers; above 50° over the central and southern parts of the Mediterranean only; below 40° on its northern shores, but above 45° on the coasts of the Spanish Peninsula. Lowest, 12° at Kharkov, 13° at Neufahrwasser, 16° at Kiev, 17° at Hermanstadt, and 18° at Hernösand; below the freezing point over nearly the whole of northern and central and eastern Europe, and over the greater part of the United Kingdom. Daily maxima below 40° in most parts of Great Britain, but thermometer exceeding 45° in the west of France, and reaching 57° at Lisbon. Rising above 60° over southern Italy and above 70° at some of the Algerian stations.

Wind strong from North-West in the west and south-west of our Islands, moderate to fresh from the same quarter over France and Spain. Light from the South-Westward over the Netherlands and the south-east of England, moderate from the Eastward on the north-east coasts of Great Britain, and also on the eastern shores of the North Sea. Light from the South-Eastward over Russia and central Europe, variable in Italy, Westerly in Algeria. Subsequently shifting to the Northward in most parts of the United Kingdom. Very strong winds from North-West or West setting in over the south of France and northern Italy.

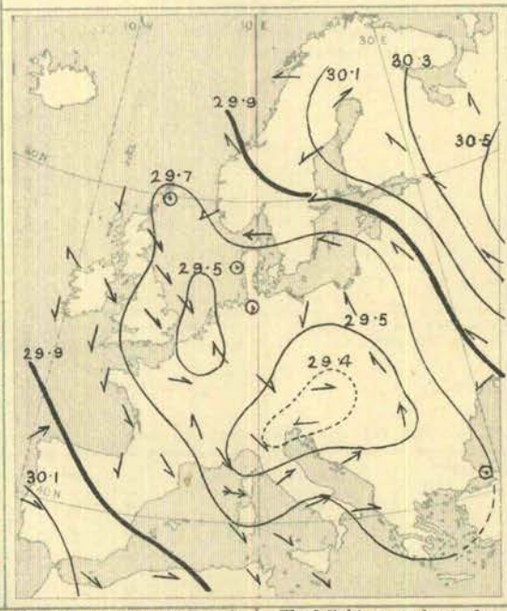
Barometer highest, 30·2 ins. and upwards in an anticyclone lying over central Russia, 30·1 ins. in another system lying off the Portuguese coasts. Lowest, 29·2 ins. and less in a well-marked depression having its centre near York, 29·4 ins. and less in a small shallow system lying over the north of Scotland. Depression over England subsequently moving slowly south-eastwards, and barometer rising in nearly all parts of the United Kingdom. New disturbance forming over northern Italy and the extreme south of France in evening.

Friday, 11th March.

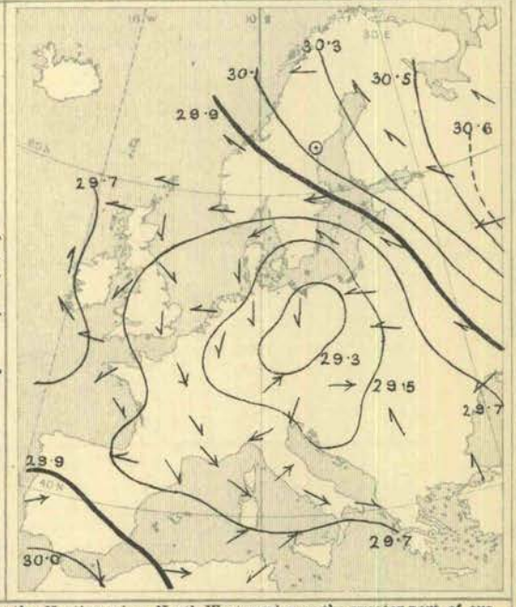
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather fine in all the more western parts of the United Kingdom, as well as at most of the French stations. Cloudy or overcast elsewhere, with snow in the east of England, and also over Austria, Denmark, the south of Sweden, and some parts of Russia; rain falling at Biarritz and Corunna. Snow falling during day at many of our own northern stations, as well as in some parts of France and Germany, but sky clearing in the east of England. Rain and snow falling at many of the Italian stations.

Temperature highest, 59° at Oran, 56° at Algiers and Malta, 53° at Palermo; above 50° over the central and southern parts of the Mediterranean only, below 40° on its northern shores, and as low as 31° at Nice. Lowest, 15° at Münster, 16° at Moscow, 18° at Hernösand, 19° at St. Petersburg and Kiev, and 23° at Bodö; below the freezing point in nearly all parts of northern, eastern, and central Europe, as well as in many parts of the United Kingdom, and as low as 24° at Aberdeen and Parsonstown. Daily maxima below 40° in many of the eastern and south-eastern parts of our Islands, as well as at some of the French stations, but above 50° in most parts of southern Europe, and above 60° in Algeria and the south of Italy.

Wind light or moderate from the Northward or North-Westward over the greater part of our Islands and France, but rather variable in the west of Ireland. Light from the Eastward or South-Eastward in Russia, and moderate from the same quarters in Scandinavia; light from North or North-West over central Germany, moderate to strong from South-West in Italy, Westerly in Algeria. Subsequently shifting to the Eastward or South-Eastward in the extreme south-west of our Islands; cyclonic circulations of strong winds appearing respectively over Germany and in the neighbourhood of the Gulf of Genoa.

Barometer highest, 30·4 ins. and upwards in a large anticyclone lying over Russia; 30·1 ins. and upwards in another system lying to the south-westward of the Spanish Peninsula. Lowest, 29·4 ins. and less in a shallow depression over Austria, 29·5 ins. and less in another shallow depression lying off the south-east of England. Latter system filling up gradually during day, but new depression beginning to appear off our extreme south-west coasts. Austrian depression increasing in intensity and advancing northwards to Germany.

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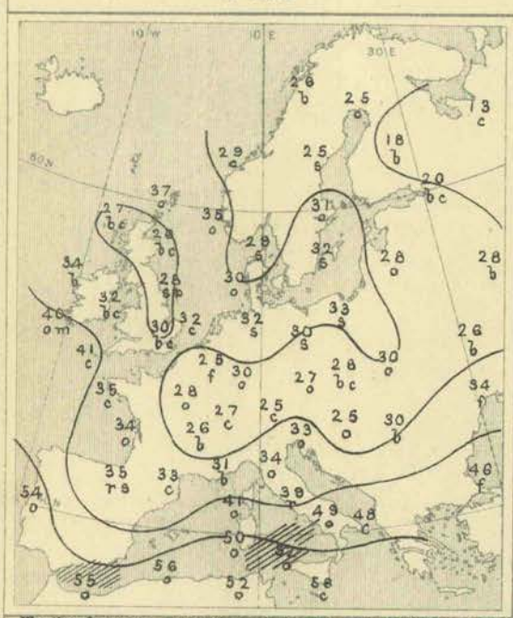
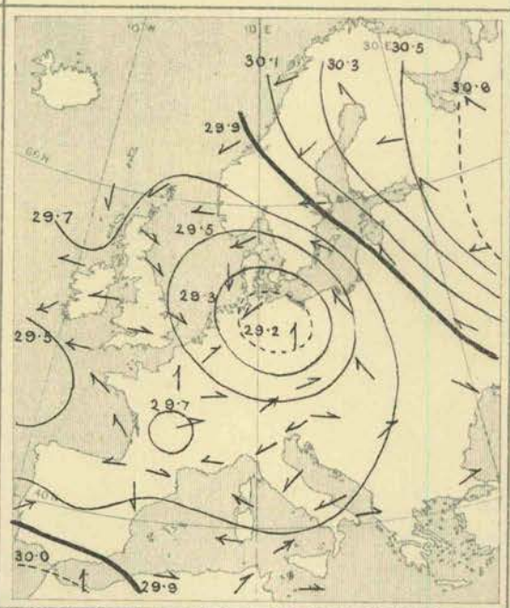
III.—SUMMARY OF WEATHER OVER EUROPE.

Saturday, 12th March.

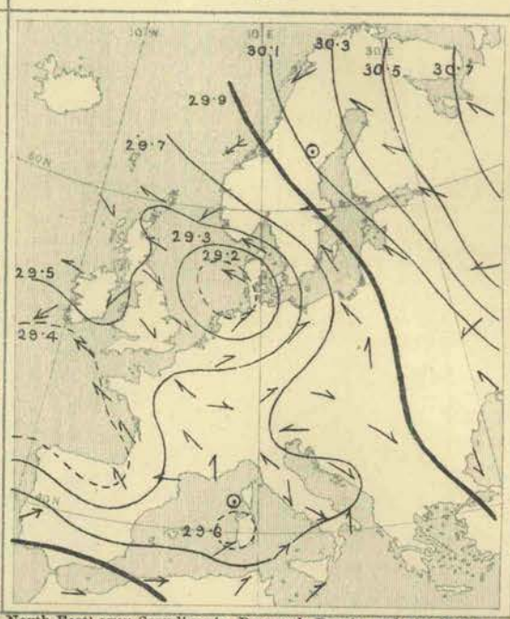
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



6 p.m.



Weather fine over the greater part of the United Kingdom and France, as well as over central Russia. Cloudy or overcast elsewhere, with snow in many parts of Sweden, Denmark, and Germany, and with rain at one or two of the Spanish and Italian stations; fog reported over the south of Russia. Snow falling later in the north and east of our Islands and heavy rain in the extreme south of France. Weather remaining fine in the western and southern parts of the United Kingdom.

Temperature highest, 57° at Oran, 56° at Algiers and Malta, 55° at Nemours, and 54° at Lisbon; above 50° over the central and southern parts of the Mediterranean generally, but below the freezing point in the Riviera. Lowest, 13° at Archangel, 18° at Kuopio, 20° at St. Petersburg, and 22° at Helsingfors and Vienna; below the freezing point over nearly all the more northern and central parts of Europe, including the greater part of the United Kingdom. Rising later to between 40° and 45° on our western and southern coasts, but remaining below 40° in the east. Exceeding 50° over southern Europe generally and exceeding 65° in Algeria.

Wind Easterly (South-East to North-East) over Scandinavia, Denmark, Russia, and the Baltic light or moderate in force generally, but strong to a gale over the Baltic and its neighbourhood. Light or moderate from the North-Westward in the eastern parts of Great Britain; Westerly or South-Westerly over western and southern Germany. Light or moderate from the Eastward in the west of our Islands, the west and south of France, and the northern parts of Italy; South-Westerly or Westerly over Algeria and the south of Italy. Subsequently veering to the South-Eastward in the west of France; increasing to a gale from East in the west of Norway.

Barometer highest, 30·6 ins. and upwards in a large anticyclone lying over northern and central Russia. Lowest, 29·2 ins. and less in a well-marked and rather deep depression lying over north Germany; 29·5 ins. and less in a shallower system lying to the south-westward of our Islands; 29·6 ins. and less in another shallow disturbance over northern Italy and the Gulf of Genoa. German depression subsequently moving north-westwards to the North Sea; disturbance off our south-west coasts travelling slowly in a south-easterly direction.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

The variations in barometrical pressure were frequent and considerable, and the weather was, therefore, in a changeable, unsettled state generally. At the commencement of the week a large anticyclone extended from Russia over all the more northern parts of the Continent, while depressions arrived in quick succession off the Portuguese coasts. The prevailing winds were, therefore, Easterly, excepting in the far north, where variable or South-Westerly airs were reported; and the weather was dry and cold in all but the extreme southern countries, where heavy rains were frequent. On the 7th the northern anticyclone gave way, but a new high-pressure system arrived off the extreme west of our Islands, while cyclonic disturbances began to appear in the far north. The depressions ultimately travelled southwards or south-eastwards across our Islands and the North Sea, and occasioned strong Northerly winds in many parts of western Europe, with snow in nearly all places. On the 11th a depression, which had originally formed over Austria and northern Italy, travelled northwards to Germany, and at the close of the week this disturbance was advancing in a north-westerly direction over the North Sea. Another depression had at the same time appeared off the south west of our Islands, so that the conditions over western Europe were exceedingly complex and the winds variable. Temperature continued low throughout the week, the maximum readings over the United Kingdom being for the most part below 40°, excepting on our extreme west and south-west coasts.

BRIGHT SUNSHINE Values for the Week in addition to those found on page 56.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	21·9	?	28	?	EASTBOURNE	32·7	?	41	?
OSWALDKIRK (Yorkshire)	23·1	?	33	?	TENBY	44·3*	?	55*	?
WORKSOP	16·5	− 3·5	21	− 5	NEWQUAY	36·6	?	46	?
THURCASTON (Leicestershire)	23·4	+ 5·1	30	+ 7	TORQUAY	33·6*	?	43*	?
MARGATE	27·3	?	35	?	ARLEY COTTAGE (County Cavan)	30·7	?	39	?
WESTBOURNE (Sussex)	32·1	?	41	?	GUERNSEY	35·9*	?	41*	?
BRIGHTON	30·8	?	39	?					

* The values at Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

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VOL. IX. No. 11.] *Third Series.* WEEK ENDING SATURDAY, 19TH MARCH, 1892. [*Price 6d.* [*Annual subscription, post paid, £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years' observations (1871-90). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the ten years 1881-90. RAINFALL.—*The Mean amounts* are those for the corresponding periods in the twenty-five years 1866-90, but the *Mean numbers of Rainy Days* are those for the ten years 1881-90, only. BRIGHT SUNSHINE.—*The Mean values* employed are those for the corresponding periods in the ten years 1881-90.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

DISTRICTS. (See p. 62.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1892. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts. 0. SCOTLAND, NORTH	65	10	45·5	31·3	38·2	1 below.	10	+ 2	39	+ 5	56	−17	537	+162
1. SCOTLAND, EAST	64	3	46·3	28·7	37·3	2 below.	12	− 3	48	+14	69	−39	585	+166
2. ENGLAND, N.E.	61	21	45·7	32·5	38·5	2 below.	10	− 5	34	+ 3	66	−36	514	+133
3. ENGLAND, EAST	63	22	47·6	32·7	39·9	1 below.	16	− 4	35	+ 1	71	−44	578	+145
4. MIDLAND COUNTIES	63	17	50·3	32·4	41·1	0 (average)	23	+ 3	38	+ 5	95	−39	571	+153
5. ENGLAND, SOUTH	61	21	48·6	33·3	41·1	1 below.	18	− 2	33	+ 6	102	−47	440	+109
Principal Grazing, &c., Districts. 6. SCOTLAND, WEST	60	18	46·5	33·2	39·7	1 below.	13	0	33	+ 7	79	−31	436	+127
7. ENGLAND, N.W.	63	20	48·1	34·3	41·0	0 (average)	17	+ 4	30	+ 3	70	−36	441	+123
8. ENGLAND, S.W.	61	15	48·9	36·0	42·2	1 below.	27	+ 7	17	− 5	130	−48	344	+ 97
9. IRELAND, NORTH	64	21	49·7	36·0	42·6	1 above.	29	+10	17	− 6	105	−54	357	+ 87
10. IRELAND, SOUTH	61	20	50·3	36·4	43·2	1 below.	32	+ 3	16	− 3	158	−69	300	+ 94
— CHANNEL ISLANDS	60	31	51·0	40·1	45·4	0 (average)	32	+ 8	5	− 4	194	−39	152	+ 45

Rainfall.

DISTRICTS. (See p. 62.)	For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1892. Number of Rainy Days.	Difference from Mean.	Total Fall.	Difference from Mean.
		10ths of In.	10ths of In.			Ins.	Ins.
Principal Wheat-producing Districts. 0. SCOTLAND, NORTH	4	6	3 less.	55	0	10·6	− 1·6
1. SCOTLAND, EAST	3	4	1 less.	43	+ 1	5·2	− 1·4
2. ENGLAND, N.E.	2	2	2 less.	43	+ 4	3·9	− 0·8
3. ENGLAND, EAST	3	2	1 less.	43	+ 4	3·2*	− 1·5
4. MIDLAND COUNTIES	3	4	1 less.	41	+ 4	4·0	− 1·6
5. ENGLAND, SOUTH	2	5	1 more.	34	− 2	3·3	− 2·5
Principal Grazing, &c., Districts. 6. SCOTLAND, WEST	3	5	4 less.	43	− 4	7·8	− 4·6
7. ENGLAND, N.W.	4	6	1 more.	42	0	6·2	− 0·8
8. ENGLAND S.W.	4	8	2 more.	45	+ 2	6·3	− 2·9
9. IRELAND, NORTH	4	4	2 less.	46	− 3	5·8	− 2·0
10. IRELAND, SOUTH	4	9	3 more.	43	− 2	7·5	− 1·7
— CHANNEL ISLANDS	4	7	2 more.	48	0	6·9	− 0·6

Bright Sunshine.

DISTRICTS. (See p. 62.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1892. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts. 0. SCOTLAND, NORTH	30	+12	37	+14	158	+22	23	+ 3
1. SCOTLAND, EAST	28	− 2	34	− 4	158	−21	23	− 3
2. ENGLAND, N.E.	34	+12	42	+13	166	+16	23	+ 2
3. ENGLAND, EAST	37	+10	45	+12	170	−11	23	− 2
4. MIDLAND COUNTIES	35	+15	43	+15	169	+ 8	23	+ 1
5. ENGLAND, SOUTH	39	+12	48	+13	194	+32	26	+ 4
Principal Grazing, &c., Districts. 6. SCOTLAND, WEST	23	0	38	0	172	+27	24	+ 3
7. ENGLAND, N.W.	29	+ 7	36	+ 9	178	+27	25	+ 4
8. ENGLAND S.W.	35	+ 5	42	+ 4	229	+38	31	+ 5
9. IRELAND, NORTH	21	+ 2	25	+ 1	158	+ 4	22	0
10. IRELAND, SOUTH	20	− 6	25	− 8	180	− 9	25	− 1
— CHANNEL ISLANDS	46	+10	56	+12	214*	−28	28	− 4

Bright Sunshine.—For several of the stations there are no "mean" values available, and the "difference from the mean" in some of the districts is consequently that of only a few of the stations.

General Remarks.

Weather continued cold and somewhat unsettled during the earlier part of the week, but subsequently became considerably warmer, especially during the daytime, and very fine and bright, with dry air.

Temperature varied greatly. During the earlier part of the time it was very low, the absolute minima (observed on the 13th in Ireland and England and on the 16th in Scotland) ranging from 3° in Scotland E. (at Braemar), 10° in Scotland N. (at Glencarron), and 15° in England S.W., to 22° in England E. and 31° in the Channel Islands. During the latter part of the week the thermometer was much higher, the absolute maxima (which occurred on the 18th or 19th) ranging from 65° in Scotland N. and 64° in Scotland E. and Ireland N., to 60° in Scotland W. and the Channel Islands. The range of temperature was consequently unusually large, but the average for the week did not differ materially from the normal value for the time of year.

Rainfall slightly exceeded the mean in England S. and S.W., Ireland S., England N.W., and the Channel Islands; elsewhere it was less than the mean.

Bright Sunshine was fairly abundant and exceeded the normal for the time of year very generally. The percentage of the possible amount of duration ranged from 25 over Ireland, to between 42 and 48 in most of the English districts, and to 56 in the Channel Islands.

Barometer and Wind.—During this period the distribution of pressure over our Islands and their immediate neighbourhood changed frequently. At first a depression of diminishing intensity passed north-westwards over Scotland from the North Sea, while an anticyclone was developed over Germany, and the wind was fresh or strong from the South-Westward or Southward. On Saturday the barometer had begun to rise steadily over our Islands, as the anticyclone over Europe moved northwards and spread westwards over the United Kingdom, and moderate gradients for South-Easterly winds were formed.

* This value has been altered slightly owing to the receipt of further information.

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II.—DATA from which the SUMMARY on page 61 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	50	30	42·7	35·0	38·7	+ 0·3	2	24	6	0·33	+0·02	*	*	*	*
	Stornoway	55	24	44·3	30·7	37·3	− 2·5	6	40	4	0·34	−0·53	33·5	+11·5	41	+14
	Wick	51	22	44·4	31·9	38·0	− 1·4	7	36	4	0·40	−0·05	*	*	*	*
	Lairg ℌ	60	10	46·6	27·2	36·6	− 1·4	13	53	3	0·15	−0·53	*	*	*	*
	Glencarron ℌ	65	14	47·9	29·0	38·2	− 0·1	17	48	3	0·94	−0·46	*	*	*	*
	Fort Augustus ℌ	60	13	46·5	31·7	38·9	− 0·6	13	38	4	0·69	+0·02	21·5	?	30	?
	Fort William ℌ	58	20	46·4	33·5	39·8	− 0·5	12	32	3	1·09	−0·29	32·5	?	40	?
1. SCOTLAND, E.	Nairn	64	6	48·0	25·4	36·4	− 3·5	17	60	3	0·65	+0·27	*	*	*	*
	Aberdeen	52	20	43·4	29·4	36·2	− 3·7	4	44	3	0·35	−0·17	22·0	− 3·0	27	− 4
	Braemar ℌ	51	3	41·6	24·1	32·6	− 3·7	0	66	3	0·26	−0·30	36·5†	?†	45†	?†
	Ochtertyre ℌ	61	21	49·0	31·7	40·1	+ 0·9	20	39	2	0·67	+0·04	*	*	*	*
	Leith ℌ	62	25	50·0	31·7	40·6	− 0·4	22	40	2	0·05	−0·24	*	*	*	*
	Marchmont ℌ	62	16	45·7	30·1	37·7	− 1·1	10	43	2	0·14	−0·43	21·5	?	26	?
2. ENGLAND, N.E.	Alnwick Castle	58	24	44·7	32·7	38·5	− 1·2	8	33	2	0·34	−0·18	*	*	*	*
	Durham	60	23	46·9	32·5	39·5	− 0·4	14	35	2	0·01	−0·45	31·2	+ 7·2	38	+ 9
	Shields	60	24	46·1	31·1	38·3	− 2·2	11	39	2	0·08	−0·32	*	*	*	*
	Scarborough ℌ	59	24	44·7	33·5	38·9	− 2·0	8	30	2	0·26	−0·18	*	*	*	*
	York	61	21	48·6	31·7	39·9	− 0·9	18	39	3	0·28	−0·12	35·8	+13·8	44	+17
	Spurn Head	54	28	42·9	33·7	38·2	− 2·3	3	29	1	0·23	−0·05	*	*	*	*
3. ENGLAND, E.	Hillington ℌ	60	24	48·9	33·1	41·8	− 0·3	19	35	2	0·31	−0·07	31·9	+ 7·9	39	+10
	Yarmouth	47	29	41·3	33·3	37·2	− 2·7	0	34	3	0·13	−0·29	*	*	*	*
	Geldeston	58	24	47·0	32·7	39·6	− 1·9	14	34	2	0·21	−0·14	36·6	+ 8·6	45	+11
	Cambridge	63	22	51·3	31·7	41·2	− 0·3	26	40	3	0·05	−0·27	39·8	+12·8	49	+17
	Rothamsted	58	23	49·4	32·5	40·7	0·0	21	37	3	0·46	+0·06	38·4	?	47	?
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	63	19	50·9	30·7	40·5	− 0·4	25	44	2	0·35	−0·04	*	*	*	*
	Loughborough	62	25	51·6	32·3	41·7	− 0·1	27	39	2	0·36	−0·02	*	*	*	*
	Stamford (Ketton Hall)	60	25	50·4	33·9	41·9	+ 0·2	24	32	4	0·37	+0·04	*	*	*	*
	Cheadle ℌ	61	24	46·7	33·4	39·9	+ 0·1	13	32	3	0·47	−0·05	*	*	*	*
	Churchstoke ℌ	61	17	50·0	32·4	40·8	+ 0·6	22	37	2	0·42	−0·04	37·9	+13·9	46	+17
	Hereford ℌ	62	19	51·6	33·5	42·3	0·0	38	24	3	0·31	− 0·08	*	*	*	*
	Cirencester	59	17	50·0	30·7	40·1	− 0·1	22	43	3	0·46	−0·02	37·3	+12·3	45	+15
	Oxford	60	23	51·0	32·6	41·5	− 0·3	25	37	1	0·16	−0·22	35·2	+10·1	43	+12
5. ENGLAND, S.	London	61	22	50·6	32·4	41·2	− 1·3	24	38	1	0·32	−0·03	31·0†	+12·0†	38†	+15†
	North Foreland	53	28	44·7	35·6	40·0	− 1·0	8	23	2	0·41	?	*	*	*	*
	Strathfield Turgiss ℌ	59	21	51·0	31·2	40·3	− 1·1	25	42	2	0·35	+0·01	*	*	*	*
	Dungeness	50	22	46·1	33·7	39·7	− 1·9	11	31	2	0·41	−0·04	*	*	*	*
	Hastings (St. Leonards)	53	28	46·7	35·1	40·7	− 2·0	13	26	2	0·43	−0·03	41·8	+10·8	51	+14
	Southampton	58	24	52·0	34·6	43·0	0·0	38	21	3	0·63	+0·17	37·7	+ 9·0	46	+11
	Hurst Castle	56	25	48·1	34·7	41·2	− 1·2	17	28	3	0·74	+0·32	*	*	*	*
	Stowell ℌ	58	22	49·6	33·3	41·2	− 0·5	21	34	3	0·51	?	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	60	25	48·7	34·5	41·4	+ 0·4	19	30	3	0·89	−0·31	*	*	*	*
	Glasgow	59	27	46·6	34·4	40·3	+ 0·3	13	28	3	0·29	−0·28	20·2	+ 2·2	25	+ 3
	Ardrossan	58	27	46·7	32·9	39·6	− 1·5	13	34	1	0·05	−0·50	*	*	*	*
	Glenlee ℌ	60	23	45·6	30·7	37·9	− 1·4	10	40	4	0·49	−0·38	*	*	*	*
	Douglas (Isle of Man)	53	18	45·0	33·7	39·2	− 2·2	8	30	5	0·74	+0·10	25·3	− 1·7	31	− 2
7. ENGLAND, N.W.	Newton Reigny	61	22	47·1	31·3	39·0	− 0·3	14	40	3	0·08	−0·42	29·9	+ 6·7	36	+ 8
	Stonyhurst	58	20	46·3	33·9	39·9	− 0·5	12	30	3	0·41	−0·37	28·8	+ 6·8	35	+ 8
	Blackpool ℌ															
	Manchester	62	25	49·4	34·3	41·6	+ 0·8	21	30	4	0·57	+0·01	*	*	*	*
	Liverpool Obsy. (Bidston)	61	29	49·4	35·6	42·3	+ 0·4	29	18	3	0·66	+0·27	*	*	*	*
	Llandudno ℌ															
	Holyhead	63	30	48·4	36·6	42·3	− 0·6	25	15	6	1·28	+0·76	*	*	*	*
8. ENGLAND, S.W.	Llandovery	61	15	51·4	32·9	41·9	− 0·6	26	37	5	1·12	+0·32	*	*	*	*
	Pembroke	54	29	47·6	38·3	42·8	+ 0·1	21	10	5	0·76	+0·22	33·8	+ 4·8	41	+ 5
	Arlington (N. Devon)	57	23	48·3	34·1	41·0	− 0·2	18	31	5	0·78	−0·02	*	*	*	*
	Cullompton ℌ	59	21	50·9	32·9	41·6	− 0·8	25	36	4	0·73	+0·16	35·7	+ 8·7	44	+11
	Falmouth	51	30	48·0	39·2	43·5	− 0·2	22	8	4	0·99	+0·22	29·3	0·0	36	0
	Plymouth	57	28	47·8	36·4	41·9	− 2·1	16	22	4	1·05	+0·45	33·1	+ 3·2	40	+ 4
	Prawle Point	51	29	48·0	38·0	42·9	+ 0·1	23	11	3	0·46	+0·01	*	*	*	*
9. IRELAND, N.	Malin Head	58	30	48·4	36·0	42·0	− 0·4	18	17	2	0·05	?	*	*	*	*
	Londonderry												*	*	*	*
	Mullaghmore	58	31	49·7	38·9	44·1	+ 1·1	28	9	4	0·19	−0·46	*	*	*	*
	Belmullet	57	30	48·7	38·0	43·2	− 1·6	25	11	5	1·24	?	*	*	*	*
	Markree Castle	59	21	49·4	34·8	41·0	− 0·8	21	19	4	0·32	−0·24	19·8	− 3·2	24	− 4
	Brookeborough	60	22	50·1	34·3	42·0	+ 1·3	23	22	5	0·33	−0·31	*	*	*	*
	Armagh	64	25	51·2	35·4	43·1	+ 2·1	35	18	3	0·20	−0·28	25·6	+ 4·6	31	+ 5
	Donaghadee	55	27	47·3	35·1	41·0	− 1·1	15	26	4	0·32	−0·14	*	*	*	*
	Edgeworthstown	59	26	53·1	35·1	43·8	+ 3·0	42	19	3	0·31	−0·12	*	*	*	*
10. IRELAND, S.	Dublin	59	27	50·5	37·7	43·9	+ 0·5	31	12	2	0·58	+0·09	20·1	− 5·9	25	− 7
	Parsonstown	59	20	51·4	32·6	41·7	− 0·5	26	37	4	0·28	−0·24	17·7	− 8·3	22	− 9
	Kilkenny	57	21	49·4	34·3	41·6	− 1·4	21	30	4	0·65	+0·17	*	*	*	*
	Waterford	54	23	48·1	35·7	41·7	− 2·3	17	25	4	0·88	+0·20	*	*	*	*
	Roche's Point	52	28	47·9	37·7	42·7	− 2·0	23	19	4	1·16	+0·32	*	*	*	*
	Valencia	54	27	50·7	39·0	44·7	− 0·8	32	8	6	1·72	+0·79	23·0	− 7·0	28	− 8
	Killarney	59	21	51·3	37·7	44·3	0·0	34	12	5	1·45	?	*	*	*	*
	Foynes	61	27	53·2	? 36·7	? 44·7	? + 1·1	41	15	2	0·54	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	53	35	50·0	41·4	45·6	− 0·3	28	2	4	0·61	+0·07	*	*	*	*
	Jersey	60	31	51·9	38·7	45·1	+ 0·4	36	9	3	0·85	+0·33	43·8	+ 9·8	53	+12

Stations marked ℌ are in connection with the Royal Meteorological Society, and those marked ℌ with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

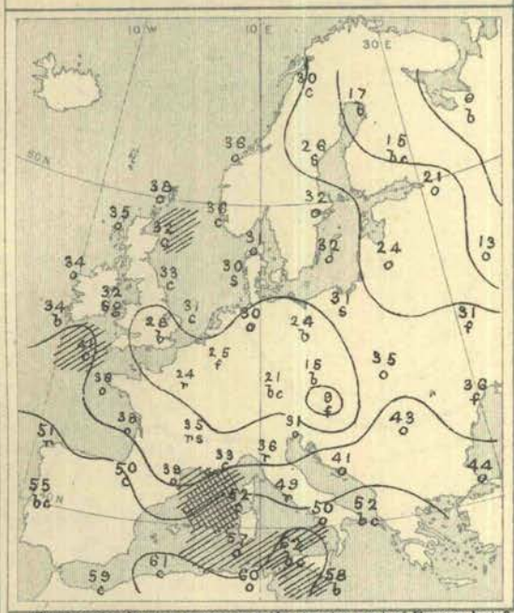
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory and the Meteorological Office, Victoria Street. For additional Reports of Sunshine see last page.

III.—SUMMARY OF WEATHER OVER EUROPE.

Sunday, 13th March.

Temperature and Weather.

8 a.m.

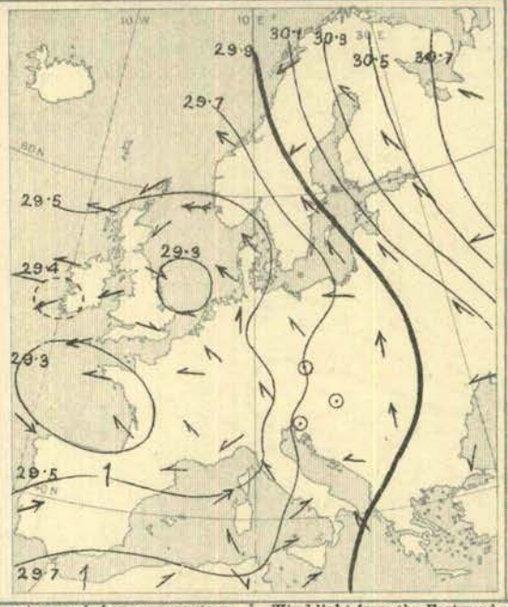


Weather cloudy or overcast over the greater part of Europe, but fine at several of our own western and southern stations, as well as in the north of Scotland; fine also in Germany, northern Russia, Algeria, and the extreme south of Italy. Snow falling locally at places in the east of Scotland and the north of England, as well as in Denmark, the south of Scandinavia, and the extreme south of France; rain and snow reported over northern Italy. Snow occurring later over all the more northern parts of the United Kingdom and rain at several of the French stations; fall very large over Italy and the south of France.

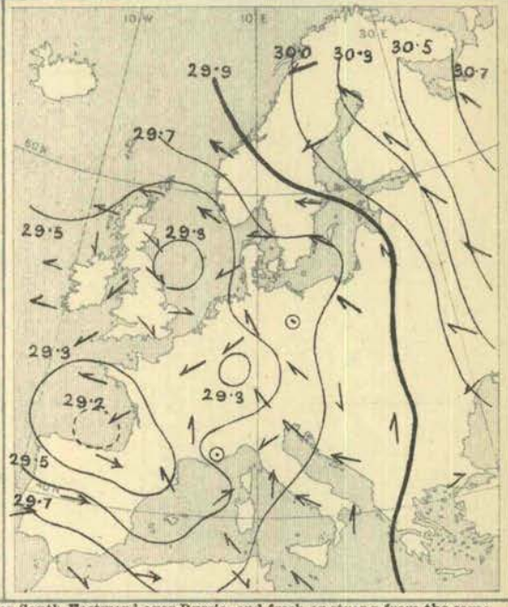
Temperature highest, 62° at Palermo, 61° at Algiers, 60° at La Calle, and 59° at Oran; above 55° over the central and southern parts of the Mediterranean generally, but below 40° on its northern shores, and as low as 33° at Nice. Lowest, 6° at Archangel, 9° at Vienna, 13° at Moscow, 15° at Uleaborg, Kuopio, and Prague, and 17° at Haparanda; below the freezing point over nearly the whole of northern and central Europe, as well as in many parts of the United Kingdom, and as low as 25° at Parsonstown, and 26° at Oxford. Daily maxima below 40° at many of our northern and eastern stations, but exceeding 50° in the west of France, and reaching 59° at Perpignan, Biarritz, and Lisbon, 65° at Brindisi, and 70° over Algeria.

Barometer and Wind.

8 a.m.



6 p.m.



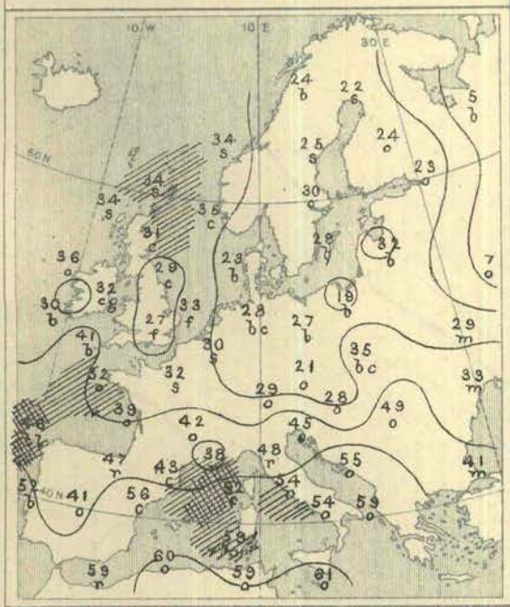
Wind light from the Eastward or South-Eastward over Russia, and fresh or strong from the same quarter over Denmark and Scandinavia, with a gale in the south of Norway; light or moderate from the Eastward or North-Eastward in Scotland, but light from the Westward over the eastern and central parts of England. Light to fresh from the Eastward over France, and from the North-Eastward in the extreme south of our Islands, but blowing a gale from West in Portugal; Southerly or South-Westerly over Algeria and the south of Italy. No important change occurring over western Europe during day beyond the moderating of the Westerly gale in Portugal.

Barometer highest, 30·7 ins. and upwards in a large anticyclone lying over central and northern Russia. Lowest, 29·3 ins. and less in two well-marked but somewhat shallow depressions—one lying over the southern parts of the North Sea and the other over the Bay of Biscay and west of France. Former disturbance continuing to move slowly in a north-westerly direction, latter still advancing eastwards over France.

Monday, 14th March.

Temperature and Weather.

8 a.m.

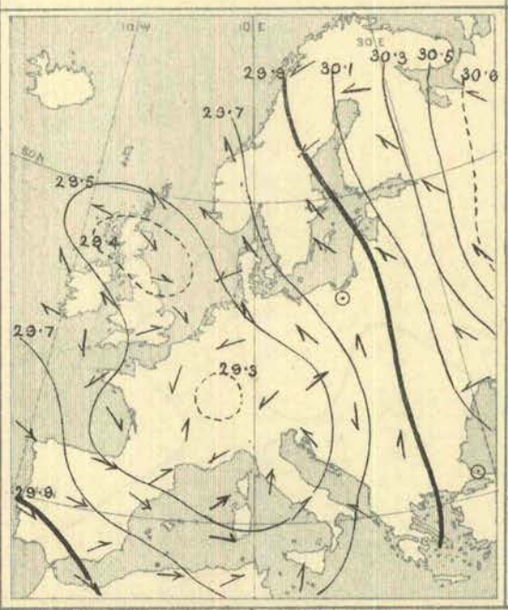


Weather in morning fine and bright over Ireland, England, and some parts of France and Germany; cloudy, more or less, elsewhere, and not at all settled either over central or south-western Europe. Snow falling over Sweden, at Stornoway, in Belgium, and the north-east of France; rain in the south and south-west of France, many parts of Italy, and Dalmatia, as well as at Odessa; fog very prevalent over England, but not dense. Hail, snow, and rain showers later in the Baltic, Scotland, Ireland, and the south of England, rain in the south of France and north of Italy.

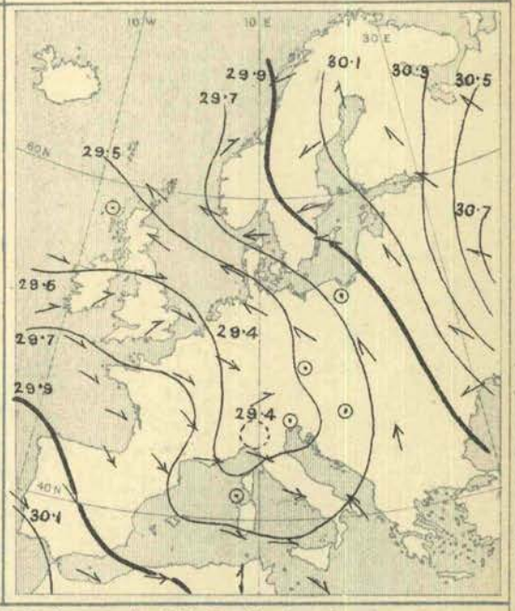
Temperature still very low for time of year, but rising over France. Morning readings ranging between 55° and 61° on the western, southern, and eastern sides of the Mediterranean, and in Portugal. Exceeding 40° in the north of Spain, the south-west of France, and the Scilly Islands; much lower elsewhere. Lowest, (1) 5° at Haparanda, 7° at Moscow, 18° at Kharkov; (2) 21° at Prague, 27° at Berlin, 32° at Paris; (3) 28° at York and 26° to 29° over other inland parts of England. Rising decidedly over the United Kingdom and France later, and exceeding 45° in many places; touching 55° at Lyons and 59° at Perpignan.

Barometer and Wind.

8 a.m.



6 p.m.



Wind, (1) South-Easterly over Russia, Germany, the Baltic, Scandinavia, and north of Scotland; very variable in Ireland, mainly Northerly to North-Westerly over England and the north and west of France; (2) very strong from between North-West and West over Spain and blowing strongly—a gale in places, Westerly over Algeria, Southerly over central Italy, South-Easterly over the Adriatic. Becoming South-Westerly in Ireland later and freshening; remaining South-Easterly in Norway.

Barometer highest, (1) 30·6 ins. and more to 30·0 ins. over Russia, Finland, and the north of Sweden; (2) 29·9 ins. to 29·7 ins. over the south-western half of Spain and Morocco, and exceeding 29·6 ins. at Valencia Island. Lowest, (1) 29·4 ins. and less in a shallow depression over Scotland and neighbouring parts of the North Sea; (2) about 29·3 ins. in another over the east of France, below 29·5 ins. over Great Britain and France generally. Rising over latter regions during day, falling in Ireland especially at night.

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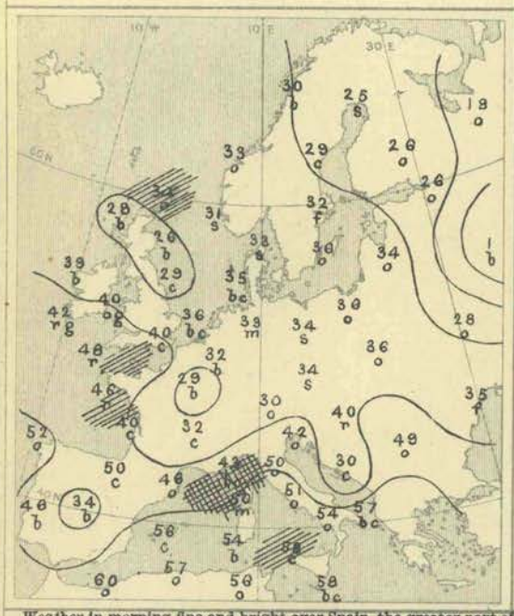
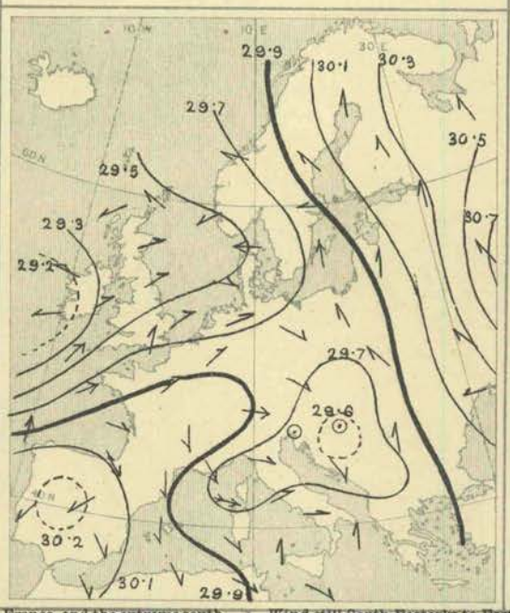
III.—SUMMARY OF WEATHER OVER EUROPE.

Tuesday, 15th March.

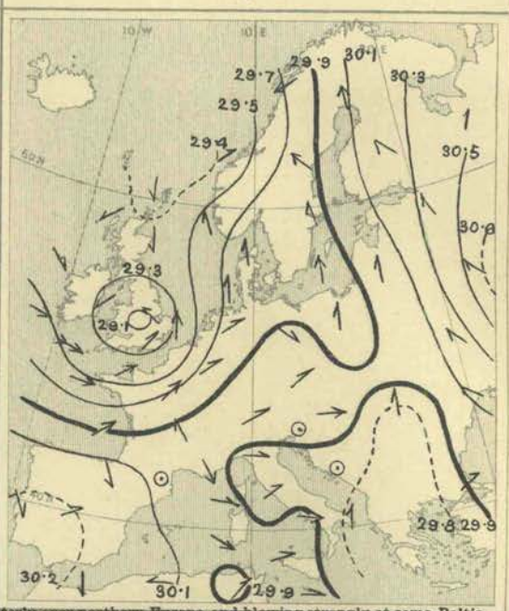
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over Spain, the greater part of France, and the extreme south-east of our Islands, as well as over central Russia; cloudy or overcast elsewhere, with snow at Haparanda and north Germany, rain in many parts of Austria, Ireland, and England. A great deal of rain falling over Ireland, England, and France later, and large quantities of snow and cold rain in Sweden; slight snow in north Germany.

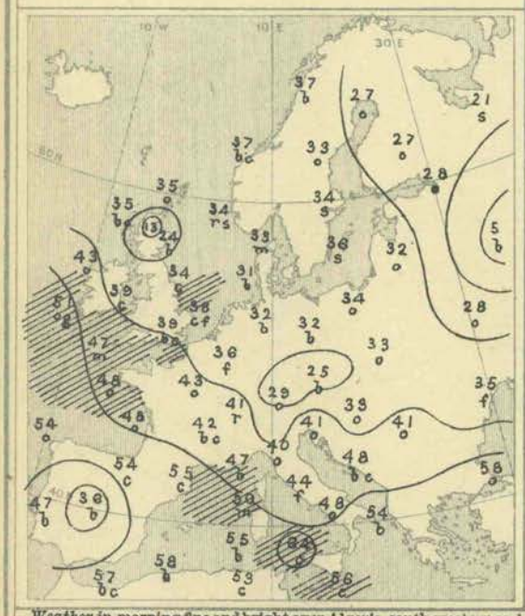
Temperature rising suddenly at the Irish and English stations, over Austria, and eastern Germany, fallen at most stations over southern Europe and the Mediterranean, and exceeding 40° in the west of France and the south-west and south of our Islands, lower elsewhere. Lowest, (1) 1° Fahr. at Moscow, 18° at Archangel, 21° at Kharkov, and below 30° over Finland and the north of Sweden; (1) 23° to 29° in the north and east of Scotland, 29° at Shields; (3) 29° at Paris, 32° at Brussels, 34° at Berlin. Rising to 50° or more on our extreme south-west coasts later, to 55° at Nice, 61° at Biarritz, 66° to 70° in the south of Italy, and still higher over Algeria.

Wind still South-Easterly to Easterly over northern Europe, and blowing strongly at some Baltic stations; Easterly on our north-western coasts also, but shifting to South and South-West over England and Wales, and beginning to blow strongly on our southern coasts. A separate cyclonic circulation prevailing over southern and south-eastern Europe, causing Easterly winds in the Riviera, Westerly gales and strong winds over the Mediterranean, Southerly breezes at Brindisi and over Hungary. Anticyclonic breezes prevalent over Spain later, Southerly to Westerly gales felt over the southern parts of England, the Channel, and north of France, but South-Easterly breezes still holding over northern Europe.

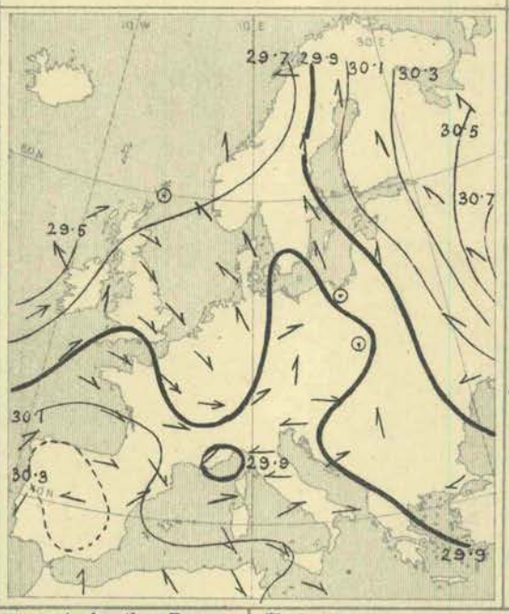
Barometer highest, (1) 30·7 ins. to 30·0 ins. in a large high-pressure system lying over Russia and Finland; (2) 30·2 ins. and more to 30·0 ins. in another such system over Spain, and in a ridge stretching thence over the southern half of France, Lowest, 29·2 ins. and less in a depression advancing towards our south-western coasts from the Atlantic, and 29·6 ins. to 29·7 ins. in another of complex and irregular form lying over the north of Italy, the south of Austria, and some parts of the Balkan Peninsula. The depression advancing well over our western districts later and barometer falling to below 29·0 ins. in several places. Disturbance over northern Italy dispersing.

Wednesday, 16th March.

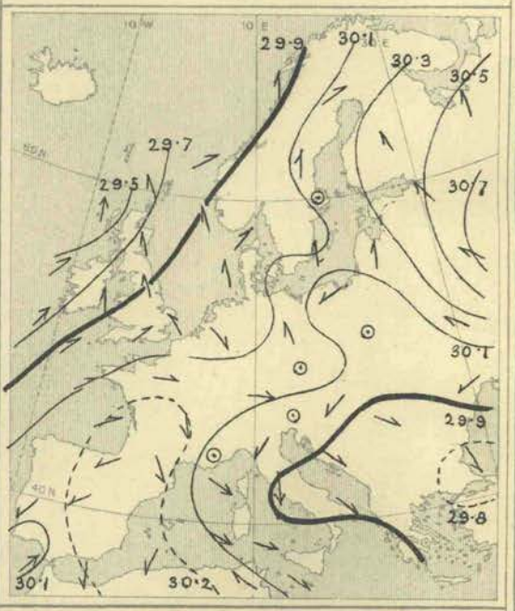
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over Algeria, south-western and some parts of southern Europe, also at several of the German, and most of the English, Scotch, and Norwegian stations; cloudy or overcast elsewhere, rainy and unsettled in Ireland, snowy at several Baltic stations, foggy in the south of Russia and the Netherlands. Rain later over all the greater part of our Islands, sleet and rain in the north, but amounts collected small, except at Belmullet. Local falls of snow or rain in some parts of Spain, Italy, and Hungary, and slighter showers in Poland.

Temperature fallen several degrees over central Europe, risen over the Mediterranean. Morning readings ranging between 46° and 64° in the latter region, and exceeding 50° on the Spanish coast and at Valencia Island, much lower elsewhere; as low as (1) 5° at Moscow, 20° at Kharkov, 21° at Archangel, 27° at Kuopio, 28° at Kiev; (2) 25° at Prague, 29° at Munich; (3) 13° at Nairn, 24° at Aberdeen, 27° at Leith. Rising later to between 50° and 58° over Ireland and the south of England, to 63° at Biarritz, 65° at Perpignan, 66° at Lisbon, but not touching 40° at any of the German stations; maxima over Italy and Algeria not much changed. Frost in Scotland giving way decidedly.

Wind moderate from South-East over Russia, the Baltic, Sweden, and Denmark, Westerly to North-Westerly over England, South-Easterly to South-Westerly, and increasing, in Ireland, very variable elsewhere. The Southerly current in Ireland increasing to a gale later and beginning to spread Eastwards, and strong North-Westerly winds setting in over the eastern half of the Mediterranean. No change of material importance elsewhere.

Barometer highest, 30·7 ins. to 30·0 ins. over Russia, Finland, and the north of Sweden; 30·3 ins. to 30·1 ins. in another system covering Spain, Algeria, and the south-western parts of France. Lowest, 29·6 ins. and less in the extreme west and north-west of our Islands, and off the north-west of Norway; 29·7 ins. and less in a small disturbance over the Netherlands; about 29·8 ins. in another over the south of Austria, and rather below 29·9 ins. in a fourth over the Gulf of Genoa. Falling somewhat on our north-west coasts later, rising rather decidedly over England, France, and the eastern shores of the North Sea.

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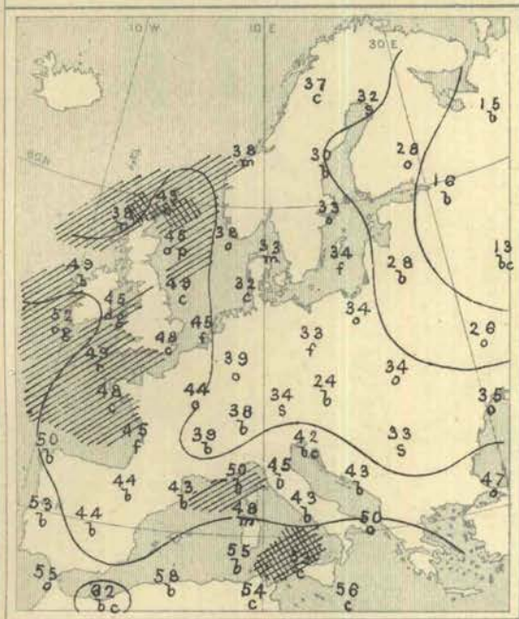
III.—SUMMARY OF WEATHER OVER EUROPE.

Thursday, 17th March.

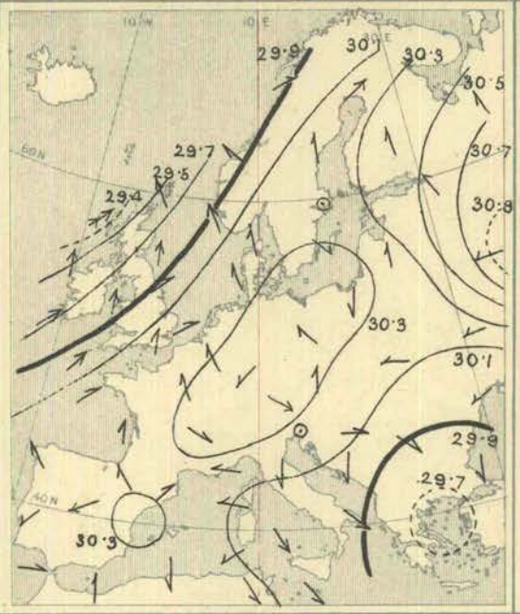
Temperature and Weather.

8 a.m.

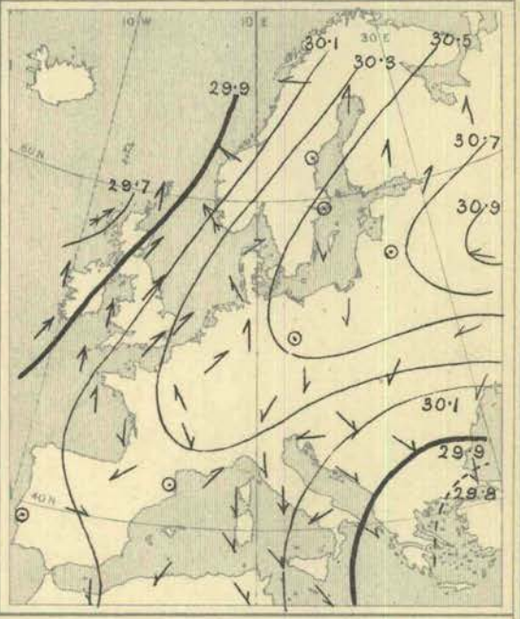


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over south-western and southern Europe, and the greater part of Russia, cloudy, more or less, elsewhere, but fair over England, unsettled and showery in Ireland and Scotland, unsettled over south-eastern Europe, with snow in Poland and Hungary. Some rain later in the western and extreme northern parts of the British Isles, and slight showers at a few of the German stations.

Temperature risen very rapidly over Scotland, considerably over England and Ireland, fallen over south-eastern Europe. Morning readings exceeding 50° at most of the Mediterranean stations, in Portugal, and at Valencia Island; exceeding 40° over the United Kingdom generally and in the west and north of France. Lower elsewhere, and as low as 13° at Moscow, 15° at Archangel, 16° at St. Petersburg, 18° at Kharkov, and 30° to 35° over north Germany. Rising later to between 55° and 59° over the inland parts of Ireland and England, to 61° at Paris, Rochefort, and Nice, and to 70° at Biarritz and Lisbon.

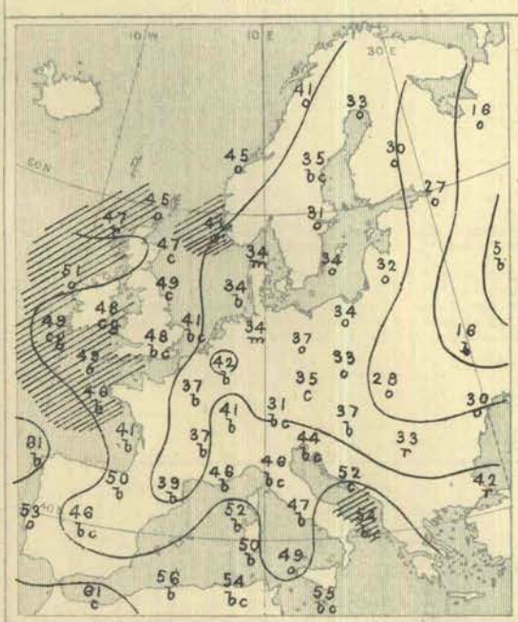
Wind Southerly over the British Islands and the north and west of France, moderate at the English stations, fresh to a gale in the west and north. South-Easterly to South-Westerly over Scandinavia, very variable and light over Russia and central Europe, Easterly to North-Easterly over Spain. Moderating in Ireland later, not changing much elsewhere.

Barometer highest, (1) 30·8 ins. and more to 30·3 ins. over Russia and Finland; (2) 30·3 ins. and more to 30·2 ins. over the Baltic, Germany, France, Spain, and Algeria. Lowest, 29·4 ins. and less off our extreme north-west coasts, and 29·8 ins. and less over European Turkey and Asia Minor. Rising in most places later, but chiefly on our north-west coasts, falling over Spain and the south-west of France.

Friday, 18th March.

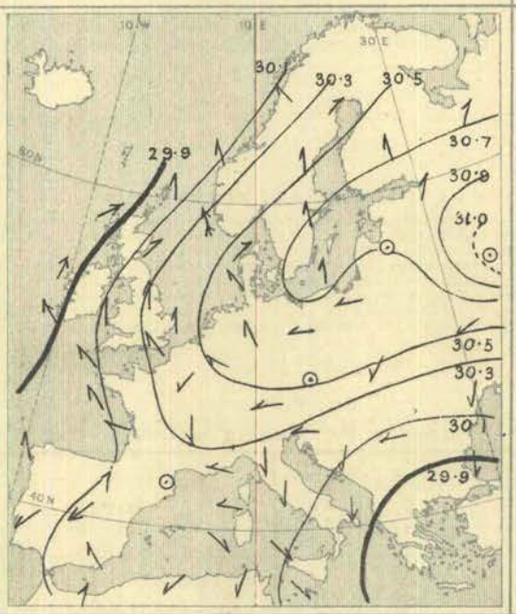
Temperature and Weather.

8 a.m.

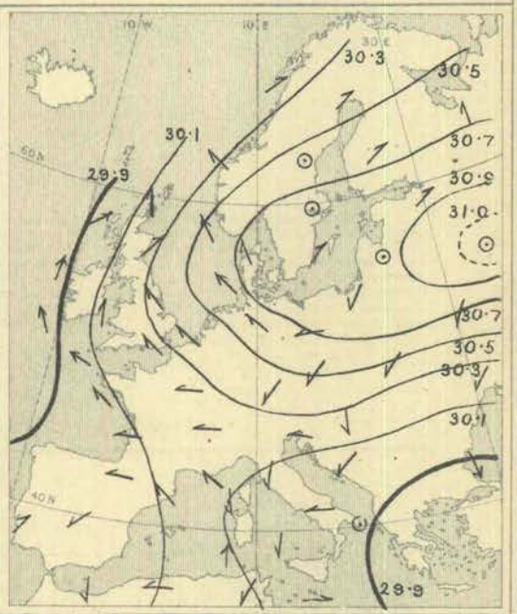


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over Russia, central, and the greater part of western and southern Europe; cloudy or overcast, with rain in places, (1) in the extreme west and north-west of our Islands and the west of Norway, (2) over the Balkan Peninsula and the Black Sea. Considerable rain in the west of Lapland later, and slighter falls at some other extreme northern stations; weather remaining fine elsewhere.

Temperature changing rather irregularly; morning readings exceeding 50° at most of the Mediterranean stations, in Portugal, and also on our extreme north-west coasts; exceeding 40° at the Norwegian, British, and French stations generally; lower elsewhere, and as low as 5° Fahr. at Moscow, 16° at Archangel, Kiev, and Kharkov, and below the freezing point over Russia, Poland, and the Baltic generally. Rising later to between 55° and 63° over the greater part of the British Islands, to between 60° and 70° in the west and south of France, and to 75° at Biarritz, but becoming much cooler over western Europe generally towards night.

Wind North-Easterly to Easterly, and of little strength, over central, south-eastern, and south-western Europe; South-Easterly over Scandinavia, North Sea, England, and the north of France; South-South-Easterly to South-South-Westerly, and of considerable strength, over Ireland and Scotland. Not much change later, beyond a backing to the Eastward over the south of England.

Barometer highest, 31·0 ins. and more to 30·1 ins. in a very large anticyclone spreading from central Russia over nearly the whole of Europe. Lowest, 29·9 ins. and less off our extreme north-west coasts on the one hand, over the Grecian Archipelago and European Turkey on the other. Gradients moderate both over north-western and south-eastern Europe, slight elsewhere. Barometer falling a little later over the Bay of Biscay and France, rising at the more northern stations.

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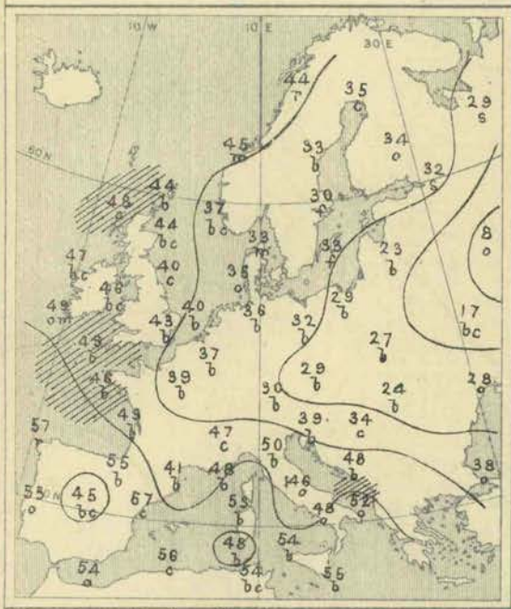
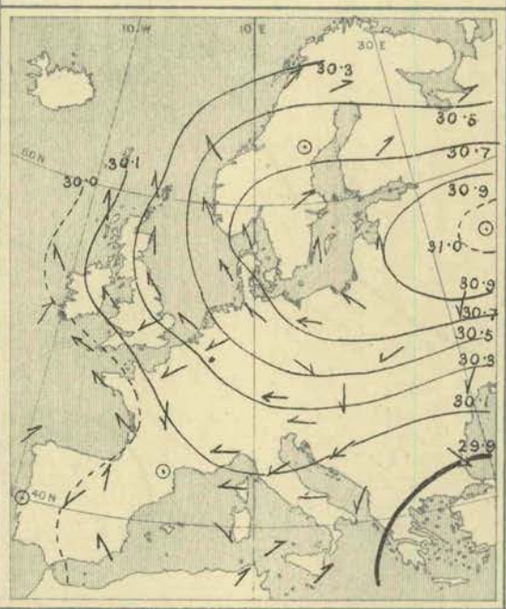
III.—SUMMARY OF WEATHER OVER EUROPE.

Saturday, 19th March.

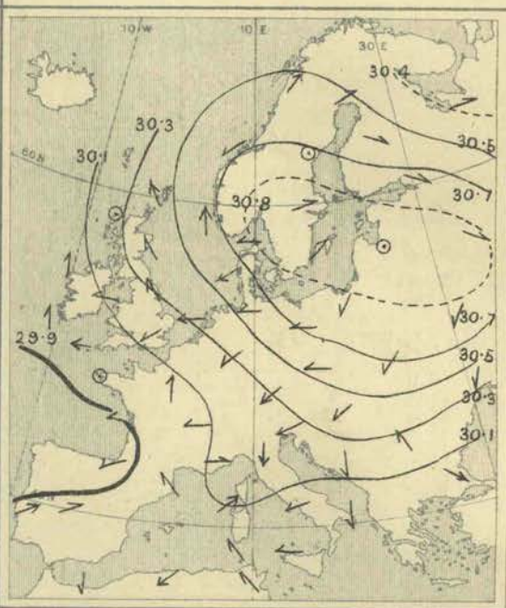
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fine and bright over nearly the whole of Europe and the British Isles, but dull and rather unsettled at some of the extreme western, northern, and south-eastern stations, with rain at Corunna and Bodö, snow at Archangel and St. Petersburg. Considerable local falls of rain at Valencia Island later, at Clermont, and Barcelona; weather fine elsewhere.

Temperature inclined to rise a little over northern Europe, but to fall elsewhere. Morning readings exceeding 50° at almost all the Mediterranean stations, and on the Atlantic coasts of Spain and Portugal; lower elsewhere. Below 40° over central, eastern, and northern Europe generally, and as low as 8° Fahr. at Moscow, 17° at Kiev, 24° at Lemberg, and 27° to 30° over Poland, Austria, and south Germany. Rising later to between 55° and 60° at many of our stations, to 63° at Holyhead, and 64° at Nairn. Still higher over the south of France, in Italy, and Algeria, and reported to have touched 70° at Rochefort.

Wind Easterly over nearly the whole of eastern, central, southern, and western Europe, with England, South-Easterly in Ireland, Southerly in Scotland (gale at Wick), South Westerly over Lapland and Finland. Little change later, beyond some backing to the Eastward in the south of Ireland. A North-Easterly gale reported at Odessa in morning, moderating later.

Barometer highest, 31·0 ins. over central Russia, and ranging between that value and 30·3 ins. in a large anticyclone covering Russia, central and nearly all of western Europe. Lowest, 29·9 ins. and less over Asia Minor, 30·0 ins. and less over the Bay of Biscay and western parts of the Iberian Peninsula. Falling somewhat over Spain, France, and Germany during day, rising at the western and northern stations.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of this week a large high-pressure system covered northern and eastern Europe, while several depressions of slight intensity and moving in various directions were found in the west. The latter soon dispersed, and with a rise of the barometer over south-western and southern Europe, over disturbances appeared over the British Islands causing a temporary spell of South-Westerly winds and gales, mild weather, and rain.

During Wednesday and Thursday a small anticyclone advanced from the Portuguese coast across France and Germany, while large depressions lay off our western coasts. Strong South-Westerly winds and showers were therefore general over the north-western countries, but as the anticyclone referred to merged in the larger system previously lying over central Russia, the two formed an anticyclone of enormous size, which spread westwards and gradually forced the low-pressure system away from our coasts far into the Atlantic. The result was a very general prevalence over Europe during the last day or two of Easterly wind, dry bright weather, high day temperatures, but cold nights, and pressures ranging from 31·1 ins. over central Russia to 30·4 ins., over the White Sea, 30·0 ins., and less at the Atlantic stations, and to less than 29·9 ins. over Turkey and Asia Minor.

BRIGHT SUNSHINE Values for the Week in addition to those found on page 62.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	31·9	?	39	?	EASTBOURNE	46·0	?	56	?
OSWALDKIRK (Yorkshire)	35·1	?	43	?	TENBY	38·4*	?	47*	?
WORKSOP	30·4	+ 8·2	37	+10	NEWQUAY	29·6	?	36	?
THURCASTON (Leicestershire)	34·3	+14·3	42	+18	TORQUAY	43·8*	?	53*	?
MARGATE	39·8	?	49	?	ARLEY COTTAGE (County Cavan)	17·1	?	21	?
WESTBOURNE (Sussex)	41·5	?	51	?	GUERNSEY	47·3*	?	58*	?
BRIGHTON	38·1	?	46	?					

* The values at Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

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VOL. IX. No. 12.] *Third Series.* WEEK ENDING SATURDAY, 26TH MARCH, 1892. [*Price 6d.* [*Annual subscription, post paid*, £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years' observations (1871-90). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the ten years 1881-90. RAINFALL.—*The Mean amounts* are those for the corresponding periods in the twenty-five years 1866-90, but the *Mean numbers of Rainy Days* are those for the ten years 1881-90, only. BRIGHT SUNSHINE.—*The Mean values* employed are those for the corresponding periods in the ten years 1881-90.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

DISTRICTS. (See p. 68.)	Observed during the Week. Highest.	Observed during the Week. Lowest.	Averages of Daily Maxima.	Averages of Daily Minima.	Averages of Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1892. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts. 0. SCOTLAND, NORTH	58	21	47·1	35·2	41·0	1 above.	14	+ 5	26	− 7	70	− 9	563	+153
1. SCOTLAND, EAST	61	21	49·5	33·7	41·4	1 above.	21	+ 4	33	0	90	−30	618	+166
2. ENGLAND, N.E.	57	25	48·6	33·6	40·9	0 (average)	18	+ 1	33	+ 2	84	−32	547	+138
3. ENGLAND, EAST	58	24	46·9	31·6	39·0	3 below.	14	− 9	38	+ 4	85	−54	616	+155
4. MIDLAND COUNTIES	55	23	49·7	31·0	40·1	2 below.	22	− 1	42	+ 9	117	−39	613	+166
5. ENGLAND, SOUTH	60	25	48·7	35·3	41·8	1 below.	19	− 4	27	0	121	−51	467	+112
Principal Grazing, &c., Districts. 6. SCOTLAND, WEST	60	26	47·8	35·6	41·6	0 (average)	16	+ 1	26	+ 1	95	−28	462	+129
7. ENGLAND, N.W.	55	25	48·1	35·0	41·4	0 (average)	17	+ 1	28	+ 1	87	−34	489	+128
8. ENGLAND, S.W.	59	28	49·3	35·9	42·5	1 below.	29	+ 8	17	− 4	159	−40	361	+ 95
9. IRELAND, NORTH	54	29	48·0	37·1	42·4	0 (average)	23	+ 2	14	− 8	128	−50	371	+ 78
10. IRELAND, SOUTH	54	27	49·1	36·8	42·8	1 below.	27	− 4	15	− 3	185	−67	315	+ 89
— CHANNEL ISLANDS	57	39	49·7	41·3	45·4	1 below.	27	+ 2	2	− 7	221	−35	154	+ 41

Rainfall.

DISTRICTS. (See p. 68.)	For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1892. Number of Rainy Days.	Difference from Mean.	Total Fall.	Difference from Mean.
		10ths of In.	10ths of In.			Ins.	Ins.
Principal Wheat-producing Districts. 0. SCOTLAND, NORTH	5	5	3 less.	60	− 1	11·1	− 1·9
1. SCOTLAND, EAST	2	3	2 less.	45	− 2	5·5	− 1·6
2. ENGLAND, N.E.	2	2	2 less.	45	+ 2	4·1	− 1·0
3. ENGLAND, EAST	4	5	2 more.	47	+ 4	3·7	− 1·4
4. MIDLAND COUNTIES	2	1	4 less.	43	+ 2	4·1	− 1·9
5. ENGLAND, SOUTH	3	3	1 less.	37	− 4	3·6	− 2·7
Principal Grazing, &c., Districts. 6. SCOTLAND, WEST	3	2	6 less.	46	− 5	8·0	− 5·2
7. ENGLAND, N.W.	2	1	4 less.	44	− 2	6·3	− 1·2
8. ENGLAND S.W.	1	less than ½	6 less.	46	− 1	6·3	− 3·5
9. IRELAND, NORTH	2	2	4 less.	48	− 6	6·0	− 2·3
10. IRELAND, SOUTH	1	1	6 less.	44	− 5	7·6	− 2·3
— CHANNEL ISLANDS	3	2	4 less.	51	− 2	7·1	− 0·9

Bright Sunshine.

DISTRICTS. (See p. 68.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1892. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts. 0. SCOTLAND, NORTH	22	+ 6	26	+ 6	180	+22	23	+ 2
1. SCOTLAND, EAST	35	+17	40	+16	193	−14	25	− 2
2. ENGLAND, N.E.	36	+12	42	+13	202	+27	25	+ 3
3. ENGLAND, EAST	24	− 4	28	− 6	194	−14	24	− 2
4. MIDLAND COUNTIES	23	− 2	27	− 2	192	+ 5	24	+ 1
5. ENGLAND, SOUTH	26	− 2	31	− 4	220	+29	27	+ 4
Principal Grazing, &c., Districts. 6. SCOTLAND, WEST	25	0	30	0	197	+27	25	+ 3
7. ENGLAND, N.W.	32	+ 9	37	+ 9	210	+36	26	+ 4
8. ENGLAND S.W.	32	− 1	37	− 2	261	+37	31	+ 4
9. IRELAND, NORTH	10	−13	11	−17	168	−11	21	− 2
10. IRELAND, SOUTH	21	− 8	25	−10	201	−18	25	− 2
— CHANNEL ISLANDS	37	+12	44	+13	251	−22	30	− 3

Bright Sunshine.—For several of the stations there are no "mean" values available, and the "difference from the mean" in some of the districts is consequently that of only a few of the stations.

General Remarks.

Weather during this period varied a good deal from time to time. Over the Kingdom generally it was dry, but some showers of rain or snow were experienced in most places. Over the greater part of England and Scotland it was frequently fine and bright, but in most parts of Ireland a great deal of cloud prevailed.

Temperature slightly exceeded the mean in the north and east of Scotland, and just equalled it in several of the more north-western districts; in the east and south, however, it was below the normal value, the deficit in England E. being 3°. The highest of the maxima were, as a rule, recorded towards the end of the week, and ranged from 61° in Scotland E. and 60° in England S. and Scotland W. to 55° in the Midland Counties and England N.W., and 54° over Ireland. The lowest of the minima, which occurred at the beginning of the period in the southern districts, and at its close in the north, ranged from 21° in Scotland N. and E., to 28° in England S.W., 29° in Ireland N., and to 39° in the Channel Islands.

Rainfall was a little more than the mean in England E., but less in all other districts. In most of the western districts and over central England the fall was very slight.

Bright Sunshine exceeded the mean in the north and north-west of Great Britain, as well as in the Channel Islands, but showed a slight deficit in the south and south-east and a considerable deficit in Ireland.

Barometer and Wind.—Soon after the commencement of the week the Continental high-pressure area gave way and a large anticyclone spread slowly over the Kingdom from the Atlantic, and the winds became Westerly or North-Westerly in the north and North-Easterly or Easterly in the south. In force they were generally moderate or light, but the North-Westerly wind occasionally blew freshly in the north, and the Easterly wind was fresh in the Channel. By the end of the week the anticyclone had given way, and a shallow and irregularly shaped depression was moving south-eastwards over the Kingdom, while another shallow disturbance was shown off our south-west coasts.

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II.—DATA from which the SUMMARY on page 67 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.)								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	48	26	44·0	37·4	40·6	+ 1·7	6	17	6	0·21	−0·37	*	*	*	*
	Stornoway	51	27	46·1	36·0	40·9	+ 0·8	11	23	6	0·14	−0·66	30·0	+ 6·0	35	+ 6
	Wick	52	30	46·1	35·1	40·4	+ 0·5	11	26	4	0·14	−0·29	*	*	*	*
	Lairg ℌ	50	21	48·4	31·6	39·8	+ 1·1	18	39	6	1·05	+0·43	*	*	*	*
	Glencarron ℌ	58	24	47·3	34·3	40·6	+ 1·3	15	29	7	1·37	−0·02	*	*	*	*
	Fort Augustus ℌ	53	27	49·8	35·1	42·2	+ 2·0	30	19	4	0·26	−0·34	19·8	?	23	?
	Fort William ℌ	53	27	47·9	36·9	42·2	+ 0·9	23	14	4	0·46	−0·74	16·0	?	19	?
1. SCOTLAND, E.	Nairn	54	31	52·1	34·7	43·1	+ 2·7	38	20	3	0·27	−0·11	*	*	*	*
	Aberdeen	59	33	49·1	35·7	42·2	+ 2·0	28	18	2	0·11	−0·39	41·6	+14·6	48	+16
	Braemar ℌ	50	22	45·9	31·2	38·3	+ 1·0	11	39	1	0·03	−0·52	40·8 †	?†	47†	?†
	Ochtertyre ℌ	61	21	52·0	32·9	42·2	+ 2·0	40	25	1	0·31	−0·28	*	*	*	*
	Leith	60	29	50·4	35·9	42·9	+ 1·1	32	17	3	0·34	0·00	*	*	*	*
	Marchmont ℌ	52	26	47·7	31·9	39·6	− 0·2	16	38	2	0·41	−0·16	27·8	?	32	?
2. ENGLAND, N.E.	Alnwick Castle	52	29	47·9	34·1	40·8	+ 0·8	17	30	2	0·49	−0·03	*	*	*	*
	Durham	56	25	50·9	30·1	40·2	− 0·5	25	46	3	0·33	−0·18	41·7	+16·4	48	+19
	Shields	53	28	49·1	32·7	40·7	− 0·3	20	36	2	0·37	−0·04	*	*	*	*
	Scarborough ℳ	55	29	48·4	35·5	41·8	+ 0·1	18	26	2	0·22	−0·23	*	*	*	*
	York	57	29	50·9	34·0	42·2	+ 0·5	35	22	1	0·01	−0·39	30·7	+ 6·8	36	+ 8
	Spurn Head	54	31	44·6	35·1	39·7	− 1·4	7	25	0	—	−0·29	*	*	*	*
3. ENGLAND, E.	Hillington ℳ	54	25	47·7	30·8	39·0	− 3·0	16	41	4	0·09	−0·28	21·6	− 4·3	25	− 5
	Yarmouth	45	31	42·1	34·0	37·9	− 2·8	0	27	4	1·00	+0·59	*	*	*	*
	Geldeston	50	25	46·1	30·9	38·3	− 4·1	11	40	4	1·07	+0·72	24·7	− 6·1	29	− 7
	Cambridge	55	24	50·3	29·6	39·6	− 2·9	23	47	3	0·21	−0·12				
	Rothamsted	58	26	48·2	32·6	40·2	− 1·4	17	36	4	0·31	−0·09	25·2	?	30	?
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	55	24	50·7	31·7	40·9	− 0·9	24	40	1	0·03	−0·36	*	*	*	*
	Loughborough	55	28	51·1	20·6	40·6	− 2·0	25	45	3	0·10	−0·28	*	*	*	*
	Stamford (Ketton Hall)	53	23	49·3	28·9	39·0	− 3·5	20	50	3	0·29	−0·09	*	*	*	*
	Cheadle ℳ	51	26	48·4	32·5	40·2	− 0·4	18	36	0	—	−0·50	*	*	*	*
	Churchstoke ℳ	53	26	50·5	31·2	40·6	− 0·2	24	42	2	0·08	−0·37	34·3	+ 8·3	40	+10
	Hereford ℳ	53	28	50·2	32·2	40·9	− 1·9	23	38	1	0·01	−0·38	*	*	*	*
	Cirencester	51	24	48·6	30·1	39·1	− 1·9	18	45	2	0·03	−0·45	20·6	− 6·0	24	− 7
	Oxford	52	26	48·9	30·7	39·5	− 3·3	19	42	1	0·02	−0·36	14·9	−12·3	18	−15
5. ENGLAND, S.	London	60	31	50·4	35·6	42·8	− 0·6	32	18	3	0·39	+0·02	15·8 †	− 5·7 †	19 †	− 6†
	North Foreland	54	30	44·1	35·1	39·5	− 2·4	6	25	3	0·60	?	*	*	*	*
	Strathfield Turgiss ℳ	60	25	50·9	32·3	41·3	− 1·4	25	38	3	0·32	−0·03	*	*	*	*
	Dungeness	51	36	45·9	37·7	41·7	− 0·4	11	17	4	0·27	−0·15	*	*	*	*
	Hastings (St. Leonards)	53	31	48·2	37·2	42·5	− 1·2	24	13	4	0·67	+0·21	28·0	− 5·2	33	− 6
	Southampton	60	31	52·7	35·4	43·8	0·0	40	18	2	0·14	−0·31	31·7	+ 0·2	37	0
	Hurst Castle	51	33	48·4	35·9	42·0	− 1·0	18	17	2	0·04	−0·38	*	*	*	*
	Stowell ℳ	52	31	48·8	33·4	40·9	− 1·7	19	33	1	0·01	?	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	60	29	49·0	37·4	43·0	+ 1·3	26	13	6	0·17	−1·25	*	*	*	*
	Glasgow	53	29	47·2	35·3	41·1	+ 0·3	15	26	1	0·26	−0·28	25·0	+ 5·1	29	+ 6
	Ardrossan	51	34	48·1	38·0	42·9	+ 1·2	23	11	2	0·24	−0·30	*	*	*	*
	Glenlee ℌ	53	26	48·7	30·9	39·5	− 0·3	19	41	3	0·39	−0·46	*	*	*	*
	Douglas (Isle of Man)	49	31	46·2	36·6	41·3	− 0·4	12	21	2	0·05	−0·55	25·5	− 4·3	30	− 5
7. ENGLAND, N.W.	Newton Reigny	51	26	48·6	30·2	39·1	− 0·9	18	44	2	0·29	−0·19	35·0	+ 9·8	41	+11
	Stonyhurst	52	25	47·2	34·6	40·7	− 0·3	15	28	1	0·10	−0·63	30·8	+ 7·0	36	+ 8
	Blackpool ℳ	55	31	50·1	35·6	42·6	+ 1·0	31	18	1	0·08	−0·41	29·4	+ 6·2	34	+ 7
	Manchester	53	29	48·9	34·6	41·5	− 0·1	19	29	2	0·04	−0·50	*	*	*	*
	Liverpool Obsy. (Bidston)	51	32	47·1	36·3	41·5	− 1·4	14	22	2	0·22	−0·16	*	*	*	*
	Llandudno ℳ															
	Holyhead	50	36	46·9	38·7	42·7	− 0·8	19	9	1	0·05	−0·45	*	*	*	*
8. ENGLAND, S.W.	Llandovery	59	28	53·9	31·3	42·4	− 0·4	48	30	0	—	−0·77	*	*	*	*
	Pembroke	50	33	46·7	36·7	41·6	− 1·5	13	21	1	0·03	−0·49	31·0	− 0·7	36	− 2
	Arlington (N. Devon)	51	30	48·1	33·3	4 ·5	− 1·3	17	33	2	0·08	−0·68	*	*	*	*
	Cullompton ℳ	53	29	51·0	34·4	42·5	− 0·5	35	21	0	—	−0·55	31·5	+ 2·5	37	+ 3
	Falmouth	52	36	48·2	39·9	43·9	− 0·1	22	6	0	—	−0·76	24·2	− 7·4	28	−10
	Plymouth	54	35	49·8	38·1	43·8	− 0·9	29	11	0	—	−0·59	33·5	+ 1·5	39	+ 2
	Prawle Point	54	36	47·3	37·9	42·5	− 0·6	21	11	1	0·04	−0·43	*	*	*	*
9. IRELAND, N.	Malin Head	49	37	45·7	39·4	42·5	− 0·4	14	7	5	0·18	?	*	*	*	*
	Londonderry												*	*	*	*
	Mullaghmore	49	38	47·3	40·0	43·5	− 0·1	19	6	3	0·07	−0·53	*	*	*	*
	Belmullet	51	37	48·6	39·0	43·7	− 1·7	25	8	4	0·19	?	*	*	*	*
	Markree Castle	51	32	47·6	33·2	41·7	− 0·6	16	33	1	0·03	−0·52	10·9	−14·4	13	−17
	Brookeborough	50	31	47·4	34·8	40·9	− 0·3	15	28	2	0·19	−0·42	*	*	*	*
	Armagh	54	30	48·6	34·9	41·6	− 0·1	18	28	1	0·21	−0·27	8·2	−14·6	10	−17
	Donaghadee	51	33	48·3	38·6	43·3	+ 0·6	23	10	1	0·16	−0·30	*	*	*	*
	Edgeworthstown	54	29	50·1	34·0	41·8	+ 0·5	23	32	1	0·15	−0·45	*	*	*	*
10. IRELAND, S.	Dublin	52	33	48·2	37·5	42·7	− 1·2	24	13	1	0·14	−0·34	12·0	−16·5	14	−20
	Parsonstown	54	29	48·0	33·9	40·7	− 2·1	17	31	1	0·09	−0·42	12·7	−15·9	15	−18
	Kilkenny	53	31	48·6	35·6	41·9	− 1·4	18	26	1	0·09	−0·40	*	*	*	*
	Waterford	53	31	49·9	34·7	42·1	− 2·3	31	20	2	0·16	−0·51	*	*	*	*
	Roche's Point	54	35	49·9	39·4	44·5	− 0·4	28	7	1	0·10	−0·71	*	*	*	*
	Valencia	53	37	50·6	40·1	45·2	− 0·6	30	5	0	—	−0·90	38·5	+ 5·9	45	+ 7
	Killarney	53	27	49·6	36·2	42·7	− 2·0	29	16	1	0·06	?	*	*	*	*
	Foynes	53	33	48·1	37·2	42·5	− 1·4	24	13	1	0·06	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	49	40	47·4	41·6	44·4	− 1·6	18	1	2	0·14	−0·40	*	*	*	*
	Jersey	57	39	52·0	40·9	46·3	+ 0·6	35	3	3	0·18	−0·33	47·6	+12·0	56	+13

Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked ℌ with the Scottish Meteorological Society.

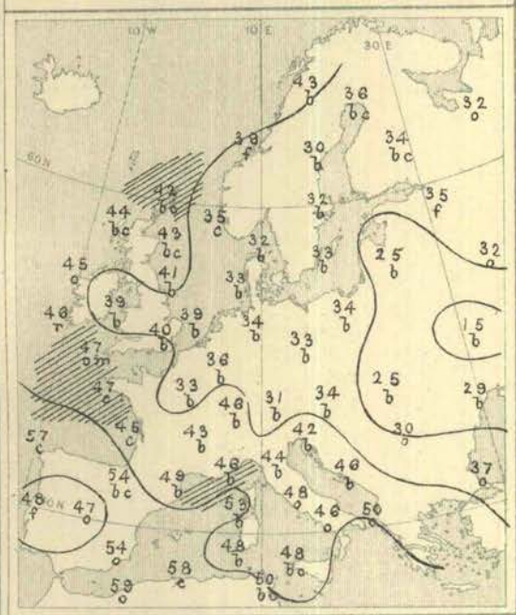
* An asterisk is inserted in all places for which the information is not usually received.

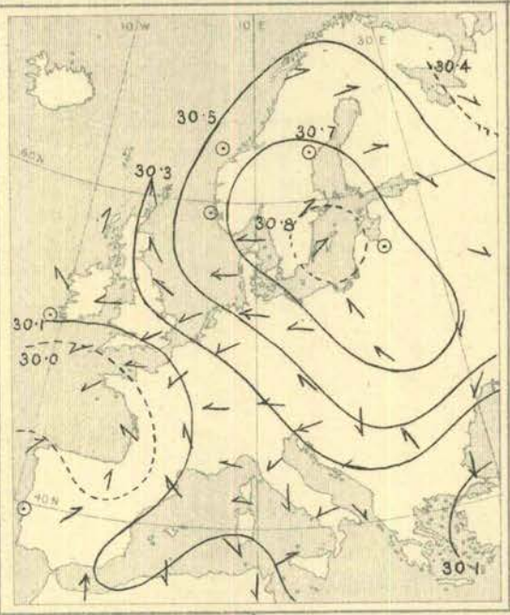
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory and the Meteorological Office Victoria Street. For additional Reports of Sunshine see last page.

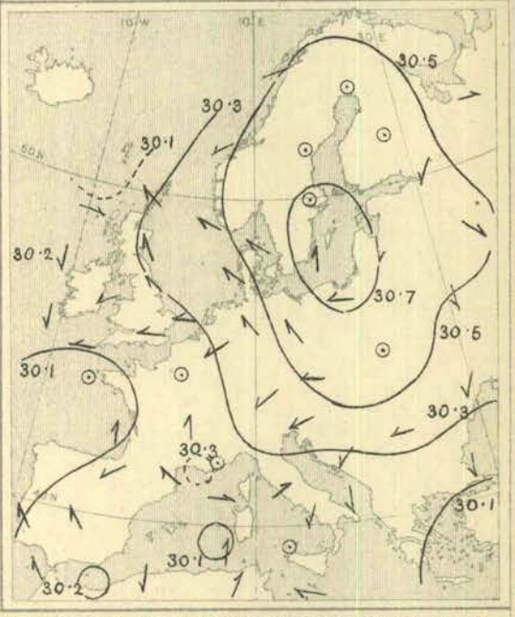
III.—SUMMARY OF WEATHER OVER EUROPE.

Sunday, 20th March.

Temperature and Weather.	Barometer and Wind.	
8 a.m.	8 a.m.	6 p.m.







Weather in morning still fine and bright over nearly the whole of Europe, but foggy in few localities and dull in the extreme west of our Islands. A good deal of misty rain reported at Valencia Island, slight rainfall later in the extreme north-west of Ireland, at Palermo, and Constantinople, but weather remaining very fine over the other parts of Europe.

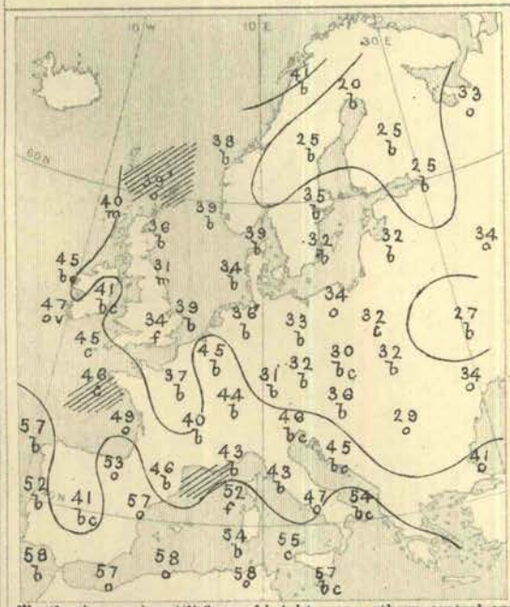
Temperature fallen considerably over the British Isles, Norway, and Denmark. Morning readings still exceeding 50° on the coasts of Algeria and the Spanish Peninsula, lower elsewhere; below 40° over the inland parts of our Islands and Europe, and as low as 15° at Kiev, 25° at Lemberg, 28° at Odessa, 30° at Breslau, Munich, and Hernösand, 33° at Berlin and Paris. Rising later to between 50° and 55° in several parts of our Islands, to between 55° and 65° over France and southern Italy, rather higher on the Algerian coast, and to between 77° and 80° over central Algeria.

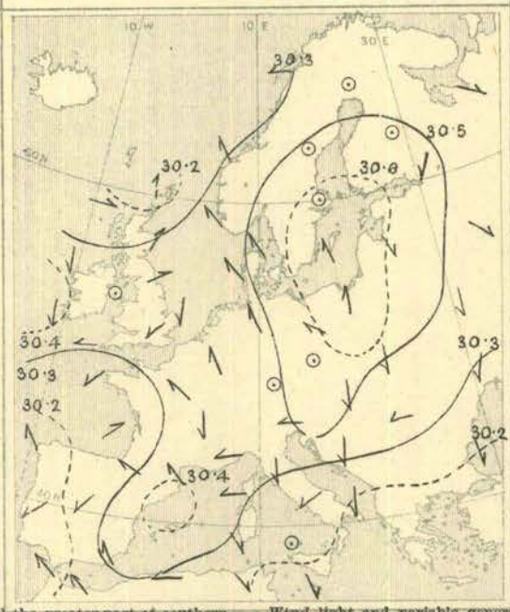
Wind Easterly over nearly the whole of central and western Europe, England, and Ireland, South-Easterly to Southerly in Scotland (a gale at Wick), South-Westerly to Westerly over northern Europe, and also over the Spanish Peninsula. Shifting to North and West at our extreme western and north-western stations later, falling light from the Eastward over England, becoming South-Easterly over Spain, and freshening from North over southern Italy.

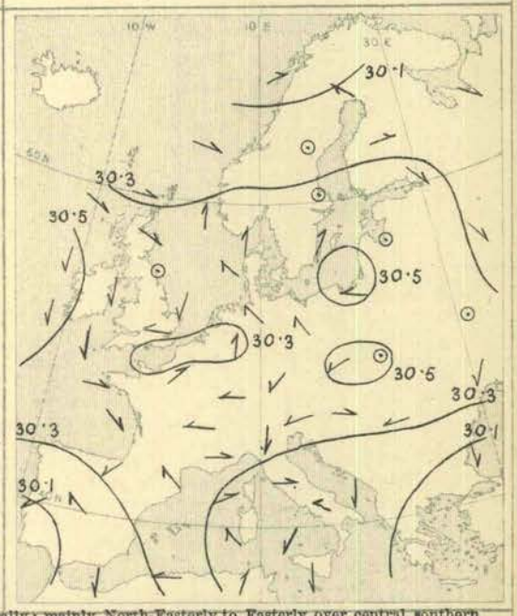
Barometer highest, 30·8 ins. and more in a large anticyclone covering northern, eastern, and central Europe, and stretching in a ridge-like form across our Islands. Lowest, 30·1 ins. and less in a shallow depression over Asia Minor, and in another one over the Bay of Biscay. The large anticyclone beginning to move South-Eastwards later, while a new one appeared off our western coasts. Barometer falling over Scotland and Scandinavia, rising elsewhere.

Monday, 21st March.

Temperature and Weather.	Barometer and Wind.	
8 a.m.	8 a.m.	6 p.m.







Weather in morning still fine and bright over northern, central, and the greater part of southern and south-western Europe, as well as at the majority of the English stations, but cloudy or overcast in many parts of Scotland, Ireland, and the west of France, dull over the south of Russia and the Balkan Peninsula. Thick fog prevailing in many parts of England, rain at Limoges. Rain and hail showers later in Scotland, and steady rain over the south-east of England, the Netherlands, and the north-east of France; slight falls in Norway and at one or two stations in the south-west of France also.

Temperature changing irregularly—fallen decidedly over northern Europe and England. Morning readings still exceeding 50° over the southern and western shores of the Mediterranean and the Atlantic coasts of Spain and Portugal, lower elsewhere. Below 40° over the greater part of our Islands, below 30° over northern Europe, and as low as (1) 20° and 25° over Finland and the north of Sweden; (2) 27° at Kiev, 29° at Hermanstadt and Vienna, 31° at Munich; (3) 28° at Loughborough, 29° at Cambridge, 30° at York. Rising later to between 50° and 55° in many parts of our Islands and Germany, 60° and higher in some parts of France, and to 72° at Lisbon, to between 60° and 65° in the south of Italy, and to between 65° and 79° over Algeria.

Wind light and variable generally; mainly North-Easterly to Easterly over central, southern, and western Europe, South-Easterly on the eastern shores of the North Sea, and becoming Northerly in the extreme west of Ireland. This latter (Northerly) current freshening later and spreading eastwards to Great Britain. Light South-Westerly and Southerly breezes appearing over some parts of France, but the South-Easterly current over Denmark and Holstein dying down.

Barometer still highest (30·6 ins. and more to 30·4 ins.) in an anticyclone covering the Baltic, northern and central Europe, and exceeding 30·3 ins. over Ireland and England. Lowest, 30·2 ins. and less over Greece, the extreme south of Italy, and Tunis, as well as over Portugal and the west of Spain; 30·2 ins. and less in a depression lying to the northward of Scotland. The Continental anticyclone giving way rapidly later, a new one coming over our western districts from the Atlantic; the depression in the north spreading over Scandinavia, and a shallow new depression appearing over Belgium and the north-east of France. Barometer rising quickly in Ireland and Scotland.

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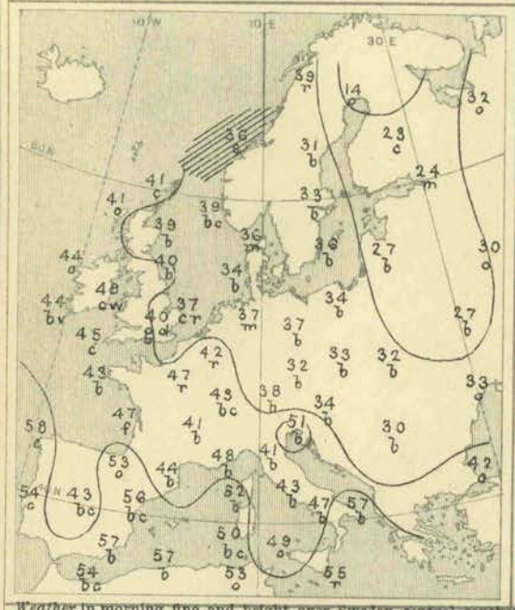
III.—SUMMARY OF WEATHER OVER EUROPE.

Tuesday, 22nd March.

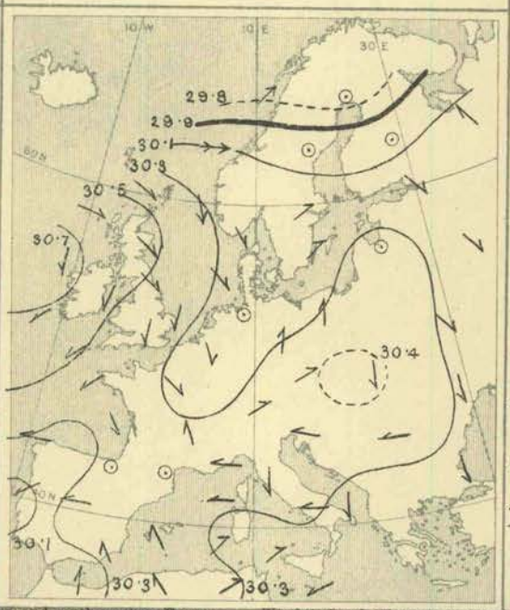
Temperature and Weather.

8 a.m.

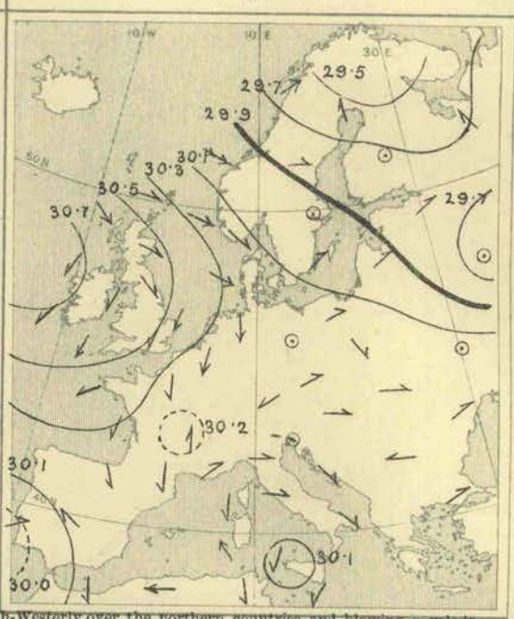


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over Sweden, central, southern, and south-western Europe, as well as over many of the western and northern parts of the United Kingdom; cloudy or overcast elsewhere, with rain and snow in the northern half of Norway, rain over the south-eastern half of England, Belgium, and the north-east of France. Rain falling during day in the last-named regions and over some of the southern departments of France, and a small quantity in many parts of Scotland.

Temperature changing irregularly, but recovered considerably over England. Morning readings still exceeding 50° over the south-eastern, southern, and western parts of the Mediterranean, and the Atlantic shores of Spain and Portugal, and exceeding 40° over nearly the whole of the United Kingdom and France; lower elsewhere. Lowest of all, 14° at Haparanda, 23° at Knopio, 24° at St. Petersburg, 27° at Kiev, 30° at Hermanstadt, 32° at Breslau, Lemberg, Prague, and Vienna. Rising during day to a little above 50° at some of our north-western and western stations, to between 55° and 70° over the southern parts of France and Italy, and to between 65° and 77° over Algeria.

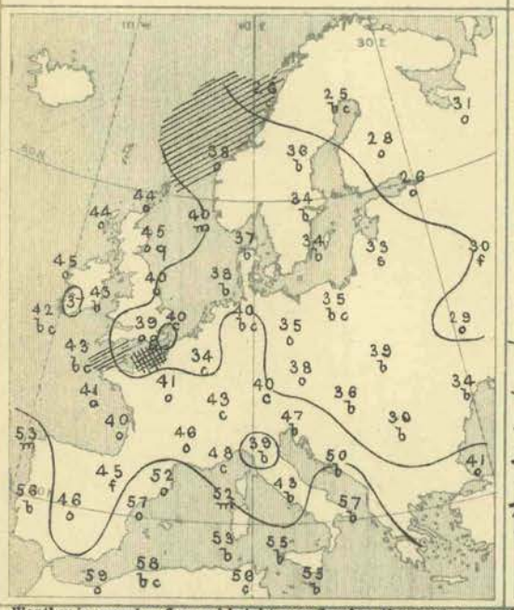
Wind (1) South-Westerly to North-Westerly over the northern countries, and blowing a gale in the north-west of Norway; Northerly over Ireland, England, and the north of France, Easterly over Spain; (2) very variable over central Europe, but mainly South-Westerly to South-Easterly, and very light, over Germany. Variable and light from the South-Eastward over the Mediterranean. Increasing to a moderate gale from North-North-East on our extreme east and south-east coasts and in the Straits of Dover later, and blowing a fresh gale from the Westward over certain parts of the northern half of Norway.

Barometer highest, 30·7 ins. and more to 30·4 ins. in the eastern part of an anticyclone spreading over the United Kingdom from the Atlantic, and ranging between 30·2 ins. and 30·4 ins. over central and southern Europe and the greater part of the Mediterranean. Lowest, (1) 29·8 ins. and less to 30·1 ins. over Lapland, Finland, and the north of Scandinavia, and below 30·3 ins. in a "V"-shaped secondary stretching from the south of Sweden, across Denmark, the Netherlands, to the north-east of France; (2) below 30·1 ins. in another disturbance off the south-west coasts of Spain. Continuing to fall over Lapland during the day, and fall spreading southwards quickly over Finland and Russia.

Wednesday, 23rd March.

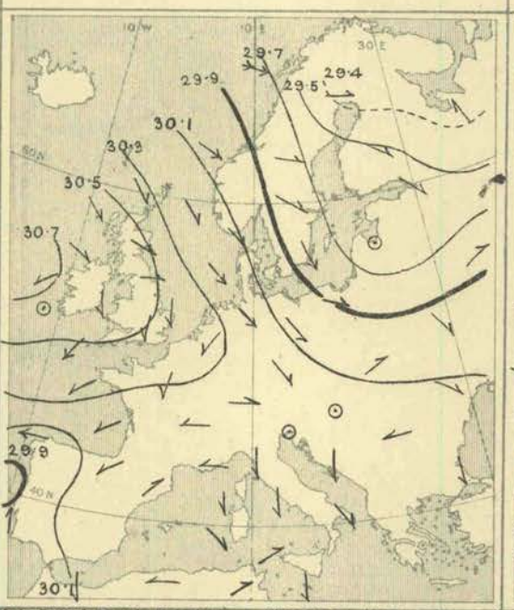
Temperature and Weather.

8 a.m.

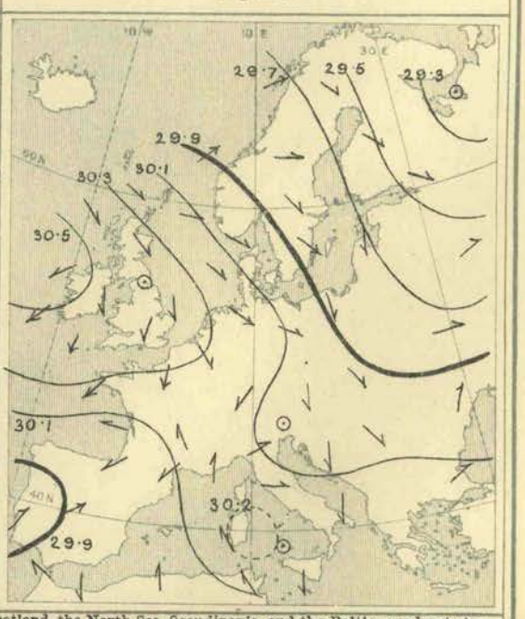


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over Sweden, the greater part of the British Islands, the whole of south-eastern Europe, and the Mediterranean, cloudy or overcast in most other places, foggy over Russia, rather showery on our own extreme north and north-west coasts. Snow reported at Riga. Slight rain later over Norway and the northern parts of Scotland, and Ireland; also at several of the Spanish stations and in the south-west of France. Snow in the north of Russia.

Temperature risen over northern and central Europe, little changed elsewhere. Morning readings still exceeding 50° in the extreme south and south-west, and exceeding 40° at most of the French and British stations, lower elsewhere. Lowest of all, (1) 19° at Ulcaborg, 25° to 28° over Finland generally, and 29° to 33° over Russia; (2) 37° at Oxford and Parsonstown, 38° at Cambridge, 39° in London, 40° at York. Rising later to a little above 50° at our northern and some of our western stations, to between 55° and 61° in Italy, to between 57° and 69° over the southern half of France, and to between 60° and 77° over Algeria.

Wind (1) North-Westerly over Scotland, the North Sea, Scandinavia, and the Baltic—moderate to strong as a rule, and blowing a gale over the northern half of Norway; Westerly over south Germany and of little strength; (2) light from the Northward over Ireland and England, moderate to strong from North-East over the Channel and Bay of Biscay; (3) Southerly to South-Westerly over Portugal and Spain; (4) very variable over the Mediterranean, central and south-eastern Europe. Blowing strongly in the north of Scotland later, little change elsewhere.

Barometer highest, 30·7 ins. and more to 30·3 ins. in the eastern portion of an anticyclone spreading in from the Atlantic over the British Isles and the neighbouring coast, and 30·2 ins. over nearly the whole of France, western Germany, Italy, and the Mediterranean. Lowest, 29·4 ins. and less to 29·6 ins. over Lapland, Finland, and the White Sea; 30·0 ins. and less over Portugal. Gradients moderate to slight. Low-pressure area over Lapland moving eastwards later, but barometer falling decidedly over western Europe and anticyclone decreasing in intensity, while spreading slowly to the eastward.

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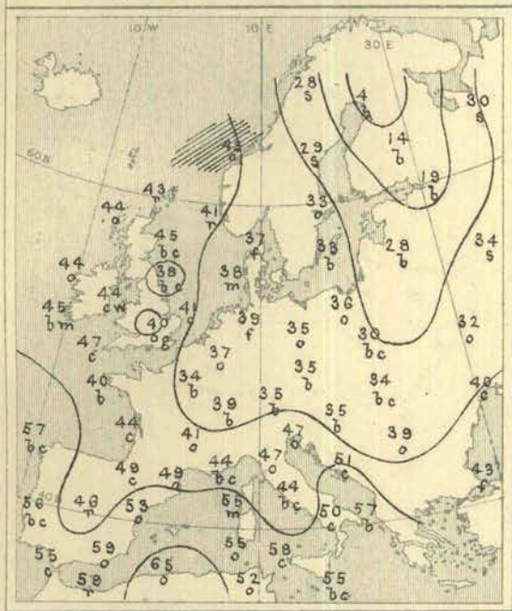
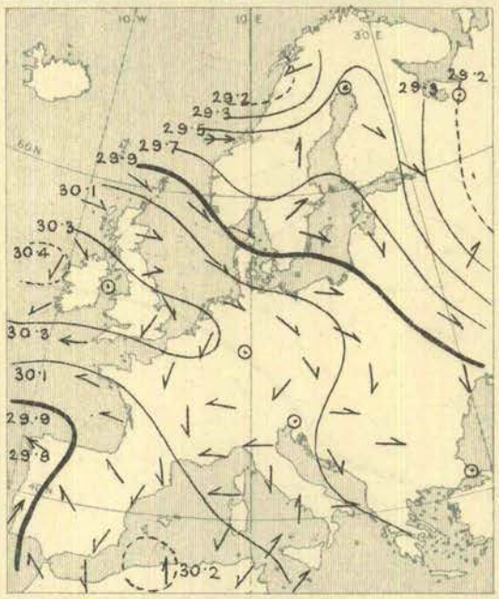
III.—SUMMARY OF WEATHER OVER EUROPE.

Thursday, 24th March.

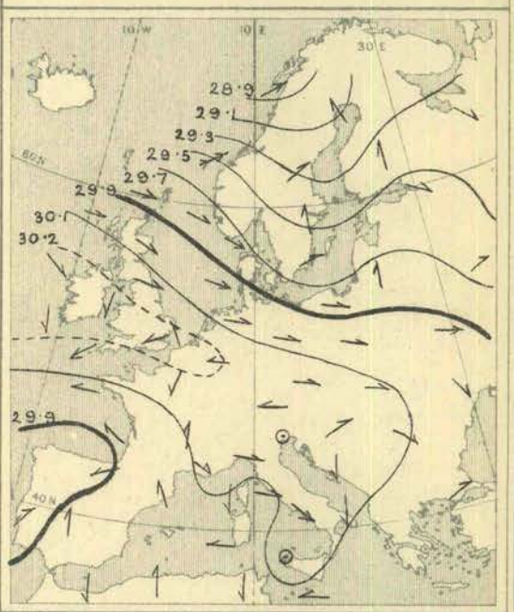
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fine and bright over Finland, the Baltic, and some parts of our Islands; also over many parts of central Europe and France; cloudy or overcast elsewhere, with snow at Moscow, Hernösand, and Haparanda, rain at Skudesnaes, Stornoway, and Malin Head. Slight rain later in Lapland, Norway, and the extreme north of Scotland, and larger quantities over the southern and northern shores of the Mediterranean. Sky clearing in London towards night.

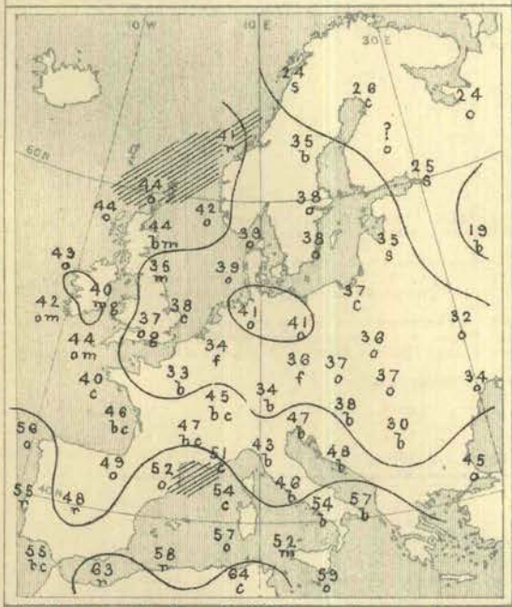
Temperature continuing above 50° at most of the Mediterranean, Spanish, and Portuguese coast stations, as high as 66° at Algiers; above 40° over the greater part of the United Kingdom and the west of Norway, lower elsewhere. Lowest of all, 4° at Uleaborg, 13° at Haparanda, 14° at Kuopio, 28° at Bodö and Riga; above 32° over the greater part of central Europe. Rising later to between 50° and 57° over the northern parts of the United Kingdom, to between 57° and 68° in Italy and the south of France, and to between 70° and 79° over Algeria; not exceeding 37° at Memel, 39° at Brussels, 41° at Berlin, and 42° at the North Foreland all day.

Wind Westerly to South-Westerly over the greater part of Scandinavia (but Easterly at Bodö) and Scotland, and blowing a gale at Christiansund; North-Westerly over Finland, the Baltic Provinces, Germany, and Poland; chiefly North-Easterly to Easterly over southern Europe and the Bay of Biscay, but Southerly (strong) on the Portuguese coast. Westerly wind increasing in strength over Denmark and the Sound later, and wind shifting to South-West at Bodö.

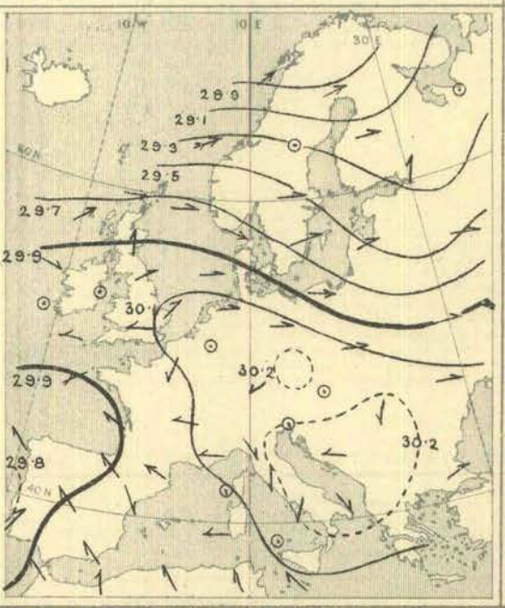
Barometer highest, 30·4 ins. and more to 30·2 ins. in an elongated high-pressure system stretching from the Atlantic across Ireland, England, the Netherlands, and the north-east of France to Germany. Lowest, 29·2 ins. and less in a depression advancing towards Lapland from the westward, and 29·8 ins. and less in another off the coast of Portugal. Gradients moderate to slight. Falling throughout our Islands all day, but showing a tendency to rise over France and western Germany.

Friday, 25th March.

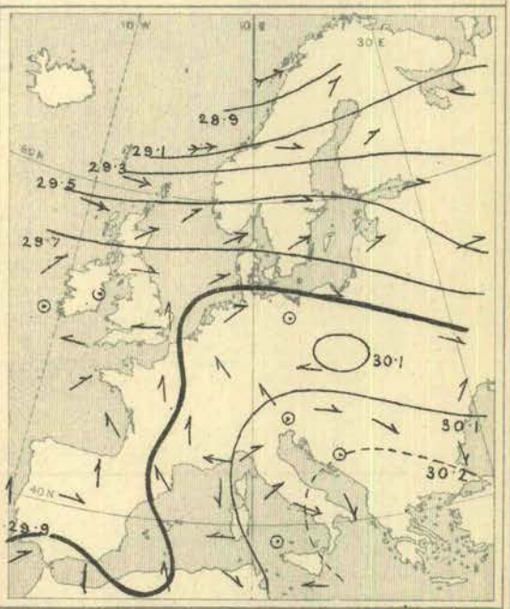
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fine and bright over south-eastern Europe, some parts of France, the Baltic, and Russia; very variable elsewhere, cloudy or overcast in most places, foggy or hazy at many of the French and English stations, rainy in several parts of Spain and Portugal, rainy, with snow, over the northern half of Norway, snow at St. Petersburg. Much rain at Christiansund later, cold rain and snow extending to the northern parts of Scotland and Ireland, local rain showers in the south of England, and a somewhat larger fall of rain in the south of France. Thick fog in London at night.

Temperature rising over southern and central Europe, as well as over the Baltic and Finland, fallen over central Russia and England. Morning readings exceeding 60° at some Algerian stations, exceeding 50° at most of the Mediterranean, Spanish, and Portugnese stations, lower elsewhere. Lowest, 19° at Moscow, 24° at Archangel, 25° at St. Petersburg, 28° at Kharkov, 33° at Paris, 34° at Oxford and Brussels, 38° at Parsonstown; 30° at Hermanstadt, 33° at Vienna. Rising later to between 50° and 60° at many of our northern stations, to 52° in London; exceeding 60° in many parts of France and Italy, and reaching 70° to 84° over Algeria.

Wind Westerly over Scotland and all the northern countries of Europe, moderate as a whole, but strong to a gale over the northern parts of Norway; very light and variable over Ireland, England, the Netherlands, central and south-eastern Europe; Easterly in the English Channel, Bay of Biscay, and south of France; Southerly to South-Easterly over Portugal and Spain. The Westerly wind becoming stronger in the north of Scotland later and gale in Norway increasing; Westerly breezes becoming general over Germany.

Barometer highest, 30·2 ins. and more over Italy and south-eastern Europe, exceeding 30·1 ins. over central Europe, and exceeding 30·0 ins. in a "ridge" extending thence across the Netherlands, England, and Ireland. Lowest, 28·9 ins. and less over Lapland, and 29·8 ins. and less in a depression off the Portuguese coast. Gradients very decided over the northern countries, slight elsewhere. Barometer continuing to fall over Europe during day, especially in the north-west and north.

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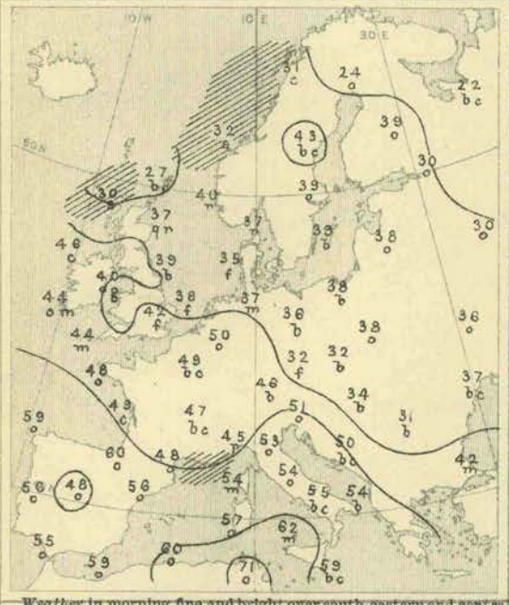
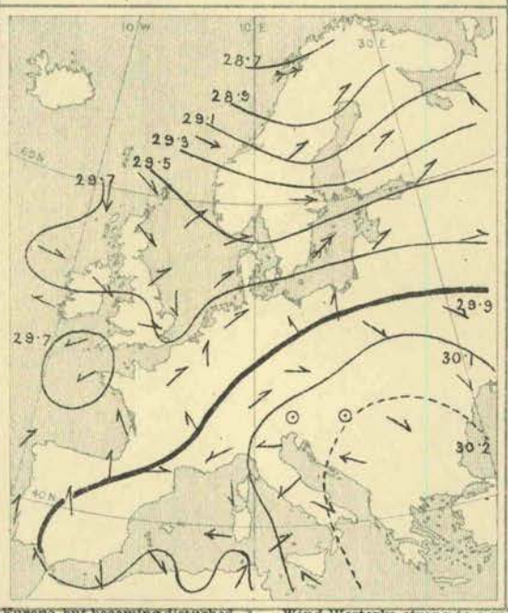
III.—SUMMARY OF WEATHER OVER EUROPE.

Saturday, 26th March.

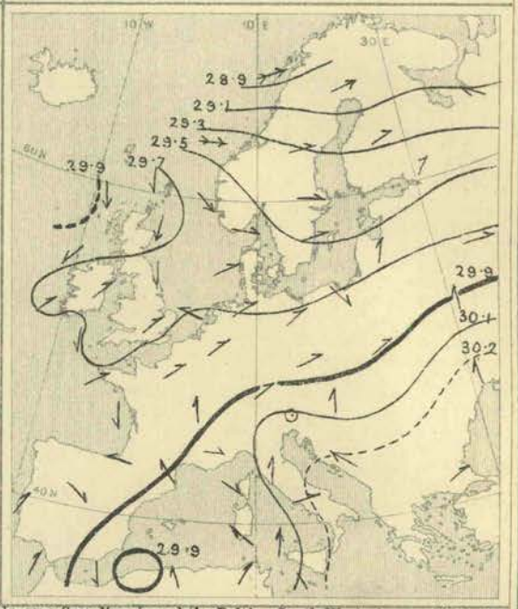
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



6 p.m.



Weather in morning fine and bright over south-eastern and central Europe, but becoming disturbed elsewhere. Rain falling in the south of France, fog and haze very prevalent over England and the Netherlands, snow and rain in Scotland and Norway. Snow or rain falling all over our Islands and the Netherlands, rain in Portugal, Spain, the south of France, and Italy; thunderstorms occurring at some central French stations.

Temperature rising over south-eastern, central, and eastern Europe, changing fitfully in the west and north-west. Morning readings, 71° at La Calle, 62° at Palermo, and above 50° over the southern and south-western countries as a whole; exceeding 40° over France and the southern and western parts of our Islands, lower elsewhere. Below the freezing point over the extreme northern parts of our Islands and Europe, as well as at Moscow. Hard frost all day in north of Scotland, but thermometer rising to 60° in Sweden, 67° at Paris, and 70° at Biarritz, to 77° at Palermo, and to between 65° and 86° over Algeria. The cold in Scotland tending to spread southwards.

Wind Westerly, strong to a gale, over Scandinavia and the Baltic; South-Westerly over Finland; Northerly, strong, in the north of Scotland and at Malin Head, very variable and light over England, France, and Germany, South-Easterly to Easterly at most of the Mediterranean stations. The Northerly wind in Scotland spreading to Ireland later, and the Westerly gale in Norway increasing in force.

Barometer highest, 30·2 ins. and more to 30·0 ins. in a large anticyclone covering south-eastern Europe and the eastern parts of the Mediterranean. Lowest, 28·8 ins. and less to 29·2 ins. over the extreme northern countries of Europe, and below 29·6 ins. in a "V"-shaped secondary lying across Scotland and the extreme north of Ireland. Rising decidedly in Scotland, falling over western and central Europe. The "V"-shaped secondary moving southwards over our Islands later and becoming very complex; barometric rise extending from Scotland to Ireland and Norway.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

The changes in the distribution of pressure during this week were of a somewhat unusual character. At first a large anticyclone dominated nearly the whole of Europe; Its centre lay over Russia, and on the 19th its maximum reading exceeded 31 ins. at Moscow, while even at our most western stations no reading was below 30·0 ins. This system, however, soon gave way, and by Tuesday night all trace of it had disappeared.

In the meantime a new system of similar character had appeared off our western coasts, where it appeared first on Sunday; increasing steadily both in size and intensity it overspread the whole of our Islands and their neighbourhood, so that on Tuesday and Wednesday readings in these regions ranged from 30·7 ins. and more in the extreme west of Ireland to 30·3 ins. over the north of France, western Germany, and the Shetland Isles. This system, however, like its predecessor, also gave way, and during nearly the whole of remaining days the barometer fell continuously over western Europe.

On Saturday morning there was not one reading on the coasts of western Europe as high as 29·8 ins., over northern Europe the values were as low as 28·8 ins. in a large depression, while in a "V"-shaped secondary, lying across our own northern districts, the values were below 29·6 ins. A fresh change was then manifesting itself. The "V" was moving southwards, with warm South-Westerly breezes on its advance side, but strong, cold, Northerly winds and squalls of snow and rain were felt in its rear, and these, with a rising barometer, were spreading southwards over the Kingdom when the week closed.

The changes of temperature were considerable and sudden, but the week, as a whole, was dry and often very bright over the British Islands.

BRIGHT SUNSHINE Values for the Week in addition to those found on page 68.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	29·1	?	34	?	EASTBOURNE	26·0	?	31	?
OSWALDKIRK (Yorkshire)					TENBY	42·0*	?	49*	?
WORKSOP	20·0	− 3·7	24	− 4	NEWQUAY	33·6	?	40	?
THURCASTON (Leicestershire)	26·2	+ 4·7	31	+ 6	TORQUAY	28·3*	?	33*	?
MARGATE	17·0	?	20	?	ARLEY COTTAGE (County Cavan)	9·6	?	11	?
WESTBOURNE (Sussex)	29·0*	?	34*	?	GUERNSEY	26·3*	?	31*	?
BRIGHTON	33·2	?	39	?					

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

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VOL. IX. No. 13.] *Third Series.* WEEK ENDING SATURDAY, 2ND APRIL, 1892. [*Price 6d.* [*Annual subscription, post paid, £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years' observations (1871-90). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the ten years 1881-90. RAINFALL.—*The Mean amounts* are those for the corresponding periods in the twenty-five years 1866-90, but the *Mean numbers of Rainy Days* are those for the ten years 1881-90, only. BRIGHT SUNSHINE.—*The Mean values* employed are those for the corresponding periods in the ten years 1881-90.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 74.)	Observed during the Week. Highest.	Observed during the Week. Lowest.	Averages of Daily Maxima.	Averages of Daily Minima.	Averages of Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	For the Week. Difference from Mean.	For the Week. Below 42°	For the Week. Difference from Mean.	From January 3rd, 1892. Above 42°	From January 3rd, 1892. Difference from Mean.	From January 3rd, 1892. Below 42°	From January 3rd, 1892. Difference from Mean.
		°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	67	17	47·5	30·9	39·0	2 below.	15	+ 3	41	+11	85	− 8	604	+163
	1. SCOTLAND, EAST	72	15	51·8	29·4	40·3	1 below.	27	+ 7	49	+18	117	−24	667	+192
	2. ENGLAND, N.E.	73	19	51·4	31·1	40·5	1 below.	26	+ 7	42	+13	110	−27	589	+160
	3. ENGLAND, EAST	70	23	50·8	30·5	40·3	3 below.	25	− 1	44	+13	110	−58	660	+176
	4. MIDLAND COUNTIES	72	20	54·0	28·4	40·8	2 below.	34	+ 7	54	+23	151	−34	667	+196
	5. ENGLAND, SOUTH	70	26	50·8	33·9	42·1	2 below.	35	+ 9	23	− 1	156	−47	490	+118
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	67	15	48·3	28·0	38·4	4 below.	20	+ 2	52	+29	115	−27	514	+162
	7. ENGLAND, N.W.	67	14	48·8	30·2	39·3	3 below.	19	0	45	+21	106	−36	514	+155
	8. ENGLAND, S.W.	71	24	53·1	34·8	43·7	0 (average)	42	+18	20	+ 2	201	−27	381	+101
	9. IRELAND, NORTH	71	18	52·9	30·2	41·3	2 below.	31	+ 6	43	+27	159	−43	417	+107
	10. IRELAND, SOUTH	69	20	53·4	29·8	41·2	4 below.	32	+ 3	48	+32	217	−68	363	+124
	— CHANNEL ISLANDS	59	34	49·3	39·7	44·4	2 below.	26	− 2	6	0	247	−42	160	+ 43

Rainfall.

	DISTRICTS. (See p. 74.)	For the Week. Number of Rainy Days.	For the Week. Total Fall.	For the Week. More or less than the Mean for the Week.	From January 3rd, 1892. Number of Rainy Days.	From January 3rd, 1892. Difference from Mean.	From January 3rd, 1892. Total Fall.	From January 3rd, 1892. Difference from Mean.
			10ths of In.	10ths of In.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	3	2	5 less.	63	− 3	11·3	− 2·4
	1. SCOTLAND, EAST	1	less than ½	5 less.	46	− 4	5·5	− 2·1
	2. ENGLAND, N.E.	2	1	4 less.	47	+ 1	4·2	− 1·3
	3. ENGLAND, EAST	2	1	3 less.	49	+ 3	3·8	− 1·7
	4. MIDLAND COUNTIES	1	2	3 less.	44	0	4·3	− 2·1
	5. ENGLAND, SOUTH	1	1	3 less.	38	− 6	3·7	− 3·0
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	1	less than ½	7 less.	47	− 8	8·0	− 5·9
	7. ENGLAND, N.W.	2	1	4 less.	46	− 4	6·4	− 1·6
	8. ENGLAND S.W.	1	less than ½	6 less.	47	− 4	6·3	− 4·1
	9. IRELAND, NORTH	1	1	5 less.	49	− 9	6·1	− 2·3
	10. IRELAND, SOUTH	1	less than ½	6 less.	45	− 9	7·6	− 2·9
	— CHANNEL ISLANDS	1	1	4 less.	52	− 5	7·2	− 1·4

Bright Sunshine.

	DISTRICTS. (See p. 74.)	For the Week. Hours recorded.	For the Week. Difference from Mean.	For the Week. Percentage of possible Duration.	For the Week. Difference from Mean.	From January 3rd, 1892. Hours recorded.	From January 3rd, 1892. Difference from Mean.	From January 3rd, 1892. Percentage of possible Duration.	From January 3rd, 1892. Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	43	+ 8	48	+ 7	223	+39	26	+ 4
	1. SCOTLAND, EAST	49	+23	55	+22	242	+11	28	+ 1
	2. ENGLAND, N.E.	46	+23	51	+25	252*	+53	28	+ 6
	3. ENGLAND, EAST	47	+ 6	53	+17	240*	+ 2	26	0
	4. MIDLAND COUNTIES	50	+23	56	+26	242	+31	27	+ 4
	5. ENGLAND, SOUTH	47	+19	53	+18	267	+48	29	+ 5
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	52	+25	59	+27	249	+51	28	+ 6
	7. ENGLAND, N.W.	55	+29	61	+31	265	+56	30	+ 7
	8. ENGLAND S.W.	64	+29	71	+32	325	+70	35	+ 8
	9. IRELAND, NORTH	57	+33	64	+35	225	+19	25	+ 2
	10. IRELAND, SOUTH	66	+35	74	+38	267	+ 6	30	+ 2
	— CHANNEL ISLANDS	51	+11	57	+12	302	− 9	32	− 2

Bright Sunshine.—For several of the stations there are no "mean" values available, and the "difference from the mean" in some of the districts is consequently that of only a few of the stations.

General Remarks.

Weather was rather unsettled, with local falls of cold rain or snow at the beginning of the week, but soon became very fine and dry in all parts of the Kingdom.

Temperature remained low, especially at night, during the earlier part of the period, but subsequently the day readings rose rapidly and became very high for the time of year, although the nights continued rather cold. The lowest of the minima were recorded in most places either on the 27th or 29th March, when the thermometer fell to between 14° and 18° in the north-western and northern districts, to between 20° and 26° in the more southern and south eastern districts, and to 34° in the Channel Islands. The highest of the maxima occurred either on the 1st or 2nd April, and ranged from 73° in England N.E. and from 72° in Scotland E. and the Midland Counties, to 67° in Scotland N. and W. and England N.W., and to 59° in the Channel Islands. The range of temperature was thus extremely large, but the average values for the week were in nearly all cases below the normal value for the time of year, the deficit in most of the districts varying from 2° to 4°.

Rainfall was much less than the mean in all parts of the Kingdom, the only days on which any was experienced being (except in the far north) at the commencement of the week.

Bright Sunshine greatly exceeded the mean. The percentage of the possible duration ranged from 48 to 59 in Scotland, from 64 to 74 in Ireland, and from 51 to 71 over England. These percentages are higher over the Kingdom, as a whole, than those recorded in any week since that ending April 5th, 1890.

Barometer and Wind.—At the beginning of the week some rather shallow depressions were passing over our Islands, but these soon disappeared, and a new anticyclone spread eastwards from the Atlantic, and continued over us throughout the remainder of the period. This was the third large anticyclone within a fortnight. The winds were at first moderate or fresh from the Northward, but with the advent of the anticyclone they became Westerly in the north and North-Easterly and Easterly in the south-east and south. The North-Easterly wind in the south-east blew freshly or strongly for a time, but subsequently became very light.

* This value has been altered owing to the receipt of further information.

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II.—DATA from which the SUMMARY on page 73 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	51	20	44·0	32·4	38·0	− 1·4	6	34	6	0·35	−0·19	•	•	•	•
	Stornoway	59	22	46·6	32·1	39·1	− 1·8	13	36	4	0·47	−0·26	34·6	+ 7·6	38	+ 7
	Wick	65	23	49·7	32·0	40·6	− 0·1	22	39	3	0·14	−0·26	•	•	•	•
	Lairg Ⓢ	67	17	49·4	29·3	39·1	− 0·6	21	48	2	0·08	−0·50	•	•	•	•
	Glencarron Ⓢ	62	17	46·1	30·2	37·9	− 2·3	11	42	3	0·24	−1·03	•	•	•	•
	Fort Augustus Ⓢ	66	17	49·9	29·7	39·4	− 1·6	22	46	1	0·03	−0·49	40·6	?	45	?
	Fort William Ⓢ	58	20	47·1	30·5	38·6	− 3·7	14	42	0	—	−1·02	54·1	?	60	?
1. SCOTLAND, E.	Nairn	70	21	51·0	30·3	40·3	− 0·8	25	45	1	0·01	−0·35	•	•	•	•
	Aberdeen	72	24	52·9	31·1	41·7	+ 0·8	31	44	3	0·05	−0·45	49·5	+20·6	55	+22
	Braemar Ⓢ	64	15	48·2	27·2	37·4	− 0·7	17	54	0	—	−0·54	50·7 †	?†	56†	?†
	Ochtertyre Ⓢ	72	15	55·9	30·0	42·6	+ 1·4	55	34	1	0·08	−0·50	•	•	•	•
	Leith Ⓢ	68	24	51·9	30·1	40·7	− 2·1	28	46	1	0·01	−0·34	•	•	•	•
	Marchmont Ⓢ	71	18	51·1	27·4	38·9	− 1·8	25	55	0	—	−0·58	49·8	?	55	?
2. ENGLAND, N.E.	Alnwick Castle	66	21	49·4	32·3	40·6	− 0·2	21	37	1	0·02	−0·49	•	•	•	•
	Durham	71	19	53·6	27·1	40·0	− 1·9	32	58	2	0·05	−0·46	57·0	+31·0	64	+36
	Shields	71	25	51·9	30·7	41·0	− 0·9	28	44	2	0·17	−0·24	•	•	•	•
	Scarborough ℳ	64	28	51·2	33·0	41·8	− 0·6	26	36	2	0·15	−0·30	•	•	•	•
	York	73	23	55·0	28·4	41·3	− 1·3	36	54	1	0·03	−0·37	38·6	+12·9	43	+14
	Spurn Head	61	31	47·3	34·9	40·9	− 1·0	15	27	2	0·07	−0·24	•	•	•	•
3. ENGLAND, E.	Hillington ℳ	66	23	51·9	28·8	40·0	− 3·0	28	51	2	0·13	−0·25	41·4	+13·5	47	+16
	Yarmouth	56	30	44·7	33·7	39·0	− 2·6	8	30	2	0·09	−0·31	•	•	•	•
	Geldeston	63	27	50·4	30·9	40·4	− 2·9	34	43	2	0·14	−0·21	50·8	+17·6	57	+20
	Cambridge	70	25	55·4	28·4	41·5	− 2·0	38	54	1	0·19	−0·18	45·1	+13·2	51	+17
	Rothamsted	65	28	51·4	30·8	40·8	− 1·8	26	44	1	0·08	−0·33	50·1	?	56	?
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	71	21	54·7	25·4	39·6	− 3·2	36	64	1	0·16	−0·23	•	•	•	•
	Loughborough	72	21	54·9	26·9	40·5	− 3·0	36	59	1	0·13	−0·26	•	•	•	•
	Stamford (Ketton Hall)	71	22	54·3	27·1	40·3	− 3·0	34	58	1	0·24	−0·17	•	•	•	•
	Cheadle ℳ	72	25	54·4	31·9	42·8	+ 1·2	48	28	1	0·03	−0·46	•	•	•	•
	Churchstoke ℳ	68	20	52·0	26·2	38·7	− 3·2	28	69	2	0·20	−0·23	52·3	+24·3	59	+28
	Hereford ℳ	68	24	54·9	29·4	41·8	− 1·9	36	51	1	0·29	−0·11	•	•	•	•
	Cirencester	67	26	53·0	29·3	40·8	− 1·2	31	50	1	0·05	−0·43	53·3	+25·1	60	+24
	Oxford	68	27	53·6	30·0	41·5	− 2·3	32	48	1	0·10	−0·30	50·9	+21·7	57	+23
5. ENGLAND, S.	London	68	29	52·9	33·1	42·7	− 1·9	42	25	1	0·11	−0·28	34·6 †	+10·6 †	39 †	+12 †
	North Foreland	55	33	45·1	36·0	40·4	− 2·5	9	22	1	0·19	?	•	•	•	•
	Strathfield Turgiss ℳ	67	26	53·4	30·1	41·4	− 2·3	32	47	1	0·17	−0·21	•	•	•	•
	Dungeness	51	28	45·9	34·9	40·2	− 2·7	11	26	2	0·17	−0·25	•	•	•	•
	Hastings (St. Leonards)	58	30	49·7	36·1	42·7	− 2·1	30	17	1	0·25	−0·22	52·0	+16·9	58	+18
	Southampton	70	30	55·6	34·0	44·5	− 0·3	51	22	1	0·04	−0·43	54·0	+20·0	61	+23
	Hurst Castle	60	30	50·3	34·3	42·1	− 1·8	33	22	1	0·06	−0·36	•	•	•	•
	Stowell ℳ	67	29	53·8	32·6	42·9	− 0·7	46	26	1	0·08	?	•	•	•	•
6. SCOTLAND, W.	Laudale (Loch Sunart)	66	24	50·8	30·6	40·4	− 2·3	25	44	1	0·16	−1·12	•	•	•	•
	Glasgow	64	23	49·0	31·0	39·2	− 2·4	20	45	0	—	−0·54	44·2	+22·0	49	+24
	Ardrossan	58	23	46·1	30·7	38·2	− 4·4	11	41	0	—	−0·53	•	•	•	•
	Glenlee Ⓢ	67	15	51·8	21·6	36·3	− 4·3	27	75	1	0·03	−0·77	•	•	•	•
	Douglas (Isle of Man)	58	24	48·9	27·2	37·7	− 4·6	19	54	2	0·03	−0·55	60·5	+27·4	68	+31
7. ENGLAND, N.W.	Newton Reigny	67	14	51·0	23·4	36·9	− 4·0	25	69	1	0·04	−0·41	60·8	+32·7	68	+37
	Stonyhurst	63	21	49·3	28·3	38·5	− 3·5	20	51	1	0·02	−0·66	56·3	+30·5	63	+34
	Blackpool ℳ	53	26	44·7	32·7	38·5	− 3·6	8	33	2	0·26	−0·19	47·6	+21·6	53	+24
	Manchester	66	25	51·4	29·3	40·0	− 2·6	26	49	1	0·02	−0·49	•	•	•	•
	Liverpool Obsy. (Bidston)	66	28	48·1	32·9	40·3	− 3·6	17	35	2	0·14	−0·24	•	•	•	•
	Llandudno ℳ															
	Holyhead	61	29	48·3	34·6	41·3	− 3·0	18	29	2	0·10	−0·38	•	•	•	•
8. ENGLAND, S.W.	Llandovery	71	24	57·7	27·6	42·2	− 1·1	62	40	1	0·03	−0·69	•	•	•	•
	Pembroke	62	32	50·3	36·7	43·2	− 0·6	31	15	1	0·05	−0·45	59·4	+24·5	67	+27
	Arlington (N. Devon)	67	27	52·9	33·7	43·3	+ 0·4	42	23	1	0·01	−0·69	•	•	•	•
	Cullompton ℳ	68	28	55·4	32·0	43·4	− 0·4	52	28	0	—	−0·54	63·8	+32·8	72	+37
	Falmouth	57	31	50·3	37·9	43·8	− 1·1	30	11	1	0·10	−0·64	66·8	+32·5	75	+36
	Plymouth	64	33	53·7	38·8	46·0	+ 0·3	41	9	0	—	−0·58	63·2	+28·8	71	+33
	Prawle Point	60	31	51·6	37·0	44·1	+ 0·2	36	14	0	—	−0·48	•	•	•	•
9. IRELAND, N.	Malin Head	60	28	50·3	35·4	42·6	− 0·8	32	18	2	0·08	?	•	•	•	•
	Londonderry												•	•	•	•
	Mullaghmore	59	28	51·6	33·3	42·2	− 2·2	38	24	2	0·13	−0·42	•	•	•	•
	Belmullet	63	30	51·1	35·4	43·0	− 3·1	35	18	2	0·09	?	•	•	•	•
	Markree Castle	66	18	54·0	23·7	38·4	− 4·7	34	69	2	0·03	−0·50	51·2	+23·2	58	+26
	Brookeborough	71	19	54·6	24·0	38·8	− 3·3	35	68	1	0·02	−0·58	•	•	•	•
	Armagh	67	22	51·5	27·4	40·6	− 2·0	35	57	0	—	−0·49	64·0	+39·0	72	+44
	Donaghadee	64	29	50·4	34·3	42·1	− 1·2	33	22	2	0·03	−0·42	•	•	•	•
	Edgeworthstown	66	20	56·9	25·1	42·2	+ 0·2	60	39	0	—	−0·59	•	•	•	•
10. IRELAND, S.	Dublin	57	25	49·2	30·2	39·4	− 5·2	20	44	1	0·02	−0·46	63·8	+32·5	72	+ 7
	Parsonstown	68	20	55·6	36·3	4·5	− 3·1	38	61	1	0·04	−0·46	53·1	+32·1	71	+37
	Kilkenny	67	24	5·9	27·3	40·7	− 2·9	36	58	1	0·04	−0·46	•	•	•	•
	Waterford	65	24	53·7	27·7	40·3	− 4·7	33	55	0	—	−0·65	•	•	•	•
	Roche's Point	58	29	50·3	32·6	41·2	− 4·2	23	37	1	0·06	−0·69	•	•	•	•
	Valencia	64	29	52·0	3··3	41·9	− 4·2	28	59	0	—	−0·87	70·3	+35·3	79	+40
	Killarney	69	24	56·8	29·8	42·9	− 2·6	58	34	0	—	?	•	•	•	•
	Foynes	65	25	54·5	31·9	43·0	− 1·6	49	28	0	—	?	•	•	•	•
CHANNEL ISLANDS	Scilly (St. Mary's)	54	34	49·1	39·0	43·9	− 2·5	26	8	0	—	−0·54	•	•	•	•
	Jersey	59	37	49·4	40·4	44·8	− 1·7	26	4	2	0·16	−0·34	49·8	+10·8	56	+12

Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

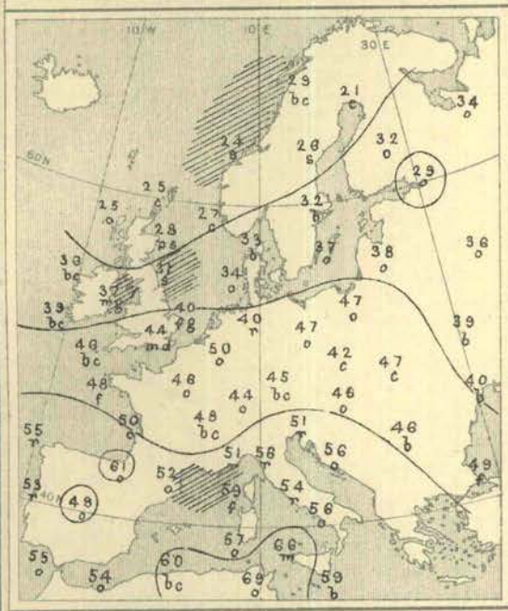
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory and the Meteorological Office Victoria Street. For additional Reports of Sunshine see last page.

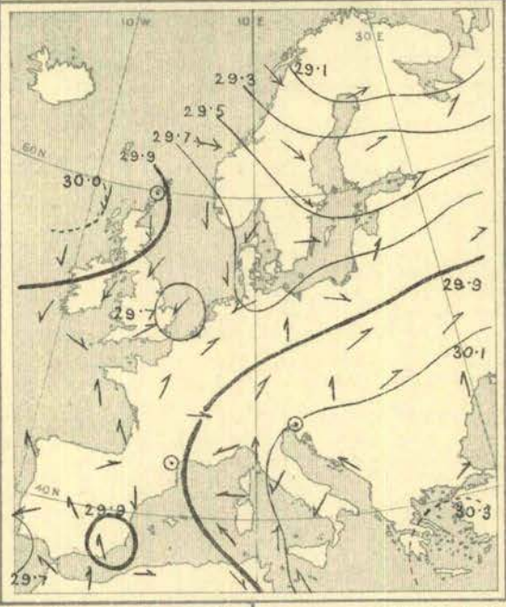
III.—SUMMARY OF WEATHER OVER EUROPE.

Sunday, 27th March.

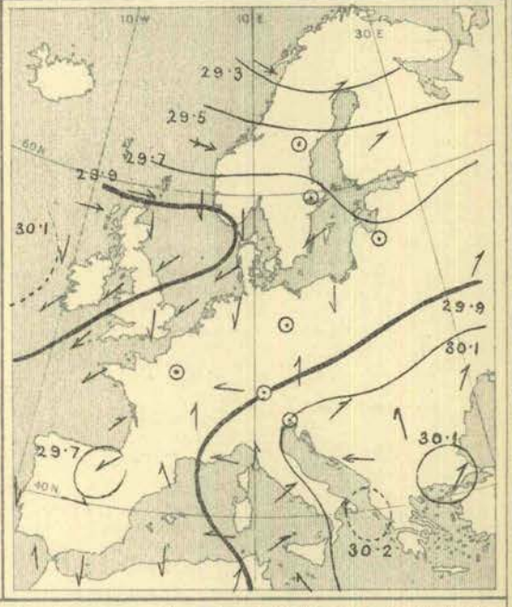
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over many parts of south-eastern Europe, and temporarily clear in Scotland and Ireland, but, as a whole, very changeable and unsettled. Rain falling over Italy, the south of France, and at Lisbon; rain and snow in the north of England, snow in Norway. Much rain later at the western French stations, smaller amounts over Spain and the north of Italy, and a large fall at Trieste; snow and sleet in the south-east of England, snow and hail in the north and over Scotland.

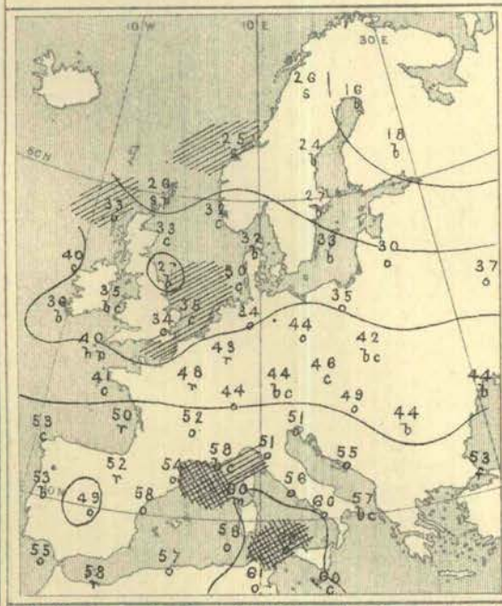
Temperature changing very irregularly; fallen fast in the north and north-west, risen fast in the south-east and east. Morning readings, 69° at La Calle, 62° at Palermo, and 61° at Tunis and Biarritz; exceeding 50° in Portugal, and 40° over France, Germany, and the south of England; lower elsewhere. Lowest, 21° to 29° over the greater part of Scandinavia, 25° to 29° over the Shetlands, Hebrides, and Scotland. Rising to a little above 50° on our south-west coasts later, to between 50° and 70° over France and Italy, and to between 75° and 85° over Algeria.

Wind very variable. Westerly, strong to a gale, over the northern half of Scandinavia; Northerly and North-Easterly, moderate to fresh, over Ireland, Scotland, and the north of England; South-Easterly, fresh, over the eastern half of the Mediterranean, Southerly over Germany, South-Westerly over Russia. The North-Easterly wind in Ireland and Scotland spreading southwards to England later, but light Westerly breezes reappearing in the Shetlands and Hebrides, and strong South-Westerly winds at Christiansund. The Northerly wind spreading over England later.

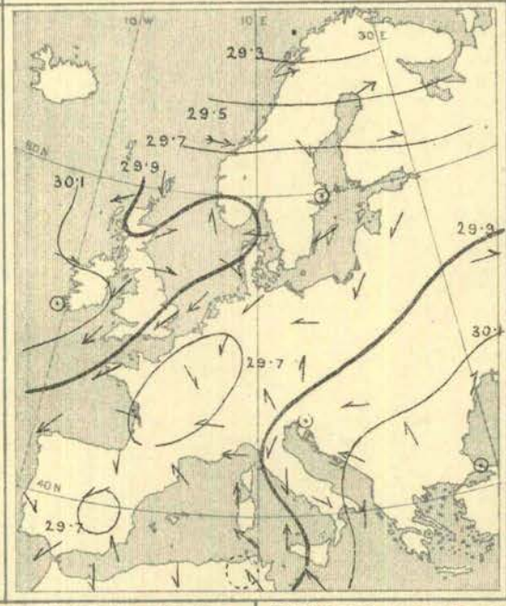
Barometer highest, (1) 30·2 ins. and more to 29·9 ins. in a large anticyclone covering the south-eastern countries of Europe; (2) 30·0 ins. to 29·9 ins. over Scotland and the north of Ireland. Lowest, (1) 29·0 ins. to 29·4 ins. over Finland, Lapland, and the northern parts of Sweden and Norway, and below 29·7 ins. in a "trough" stretching from the Atlantic and Bay of Biscay, across England, the Channel, and North Sea to Denmark. Rising over Ireland and England later, but beginning to fall again in the extreme north of Scotland.

Monday, 28th March.

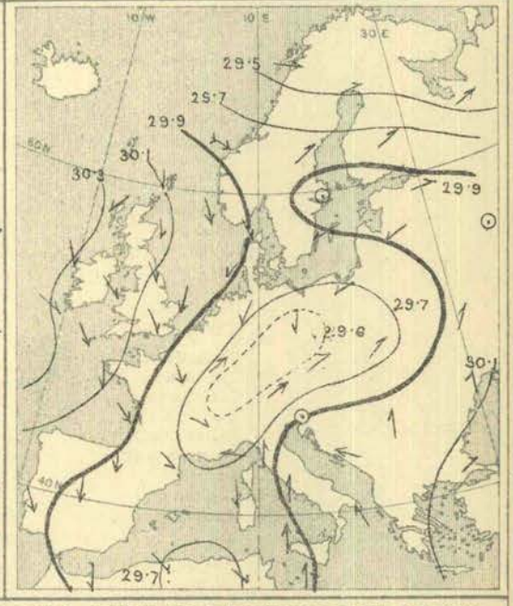
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over Sweden and Finland, as well as over south-eastern Europe, and (temporarily) in several parts of England also, but very disturbed as a whole; snow in Norway, and in the north and north-west of our Islands; much rain over France, and in some parts of Algeria. Rain and snow showers later in many parts of our Islands, France, Germany, and northern Italy, the falls being heavy in many parts of Europe and in some parts of Algeria; night clear and sharp over England.

Temperature changing fitfully, and very low for the time of year over British Isles and north-western Europe. Morning readings 60° or more over Tunis, Malta, and south Italy, and above 50° at the south European stations generally, much lower elsewhere; below the freezing point in many parts of our Islands, and as low as (1) 16° at Haparanda and Uleaborg, 18° at Knopic, 19° at Hangö, 28° at Christiansund; (2) 26° at Sumburgh Head, 29° at Parsonstown and Shields, 31° at York and Loughborough. Not touching 40° in Scotland or the south-east of England during day, but ranging between 60° and 70° in the south of France, and in Italy, and exceeding 80° in some parts of Algeria.

Wind Westerly, strong to a gale, over the northern half of Scandinavia; variable, but chiefly Northerly, and in places strong, over Great Britain; North-Easterly over the Channel and Bay of Biscay. Easterly and strong on the northern shores of the Mediterranean; South-Easterly at Malta, Palermo, and Cagliari.

Barometer highest, (1) 30·1 ins. and more over the greater part of Ireland and neighbouring parts of the Atlantic, and exceeding 29·9 ins. in a "ridge" extending from Ireland across England and the North Sea to Norway; (2) 30·1 ins. and more to 30·0 ins. over south-eastern Europe and Asia Minor. Lowest, 29·4 ins. and less, over Lapland, and 29·8 ins. to 29·7 ins. and less, in a large and very complex "trough," stretching from the Mediterranean and Spain across France and north Germany to the Baltic Provinces of Russia. Rising throughout our Islands all day, falling slightly in Denmark.

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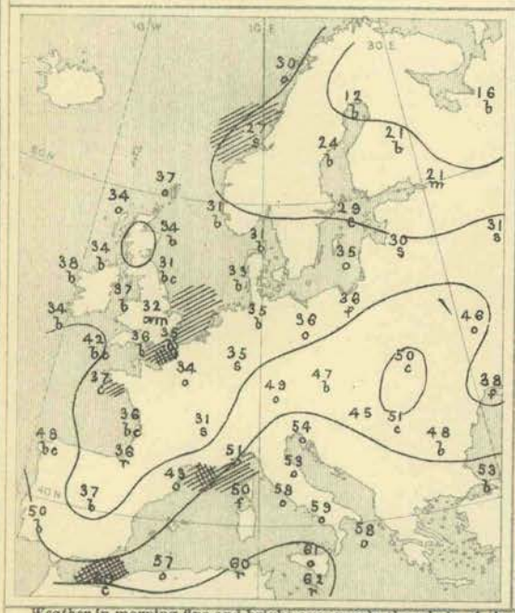
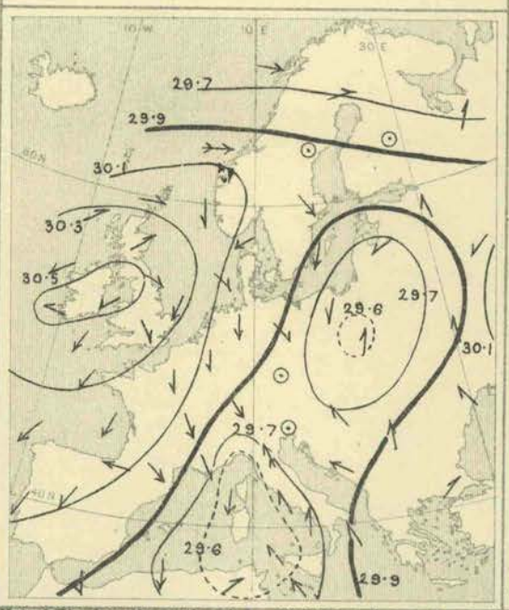
III.—SUMMARY OF WEATHER OVER EUROPE.

Tuesday, 29th March.

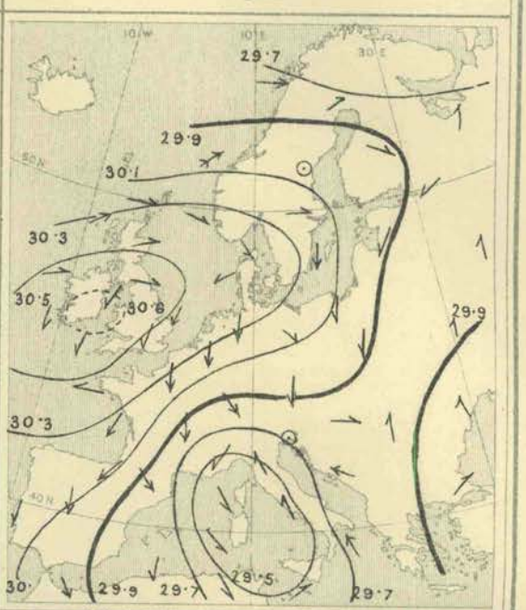
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over nearly the whole of the United Kingdom, the north and west of France, and the Spanish Peninsula, also over Finland, and at several stations in central and south-eastern Europe; cloudy or overcast elsewhere, with snow at Christiansund, Moscow, and in the eastern parts of France, rain at Biarritz and in the Riviera, fog in the south of Russia. Exceedingly heavy rain in the Riviera and in Algeria during day, and a great deal of snow and rain over central France, as well as in Norway and the Shetlands. Very slight snow showers in the south-east of England.

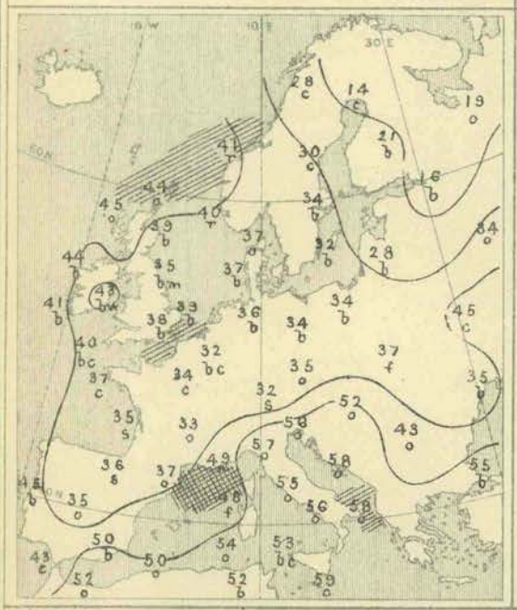
Temperature fallen over Spain, France, and north Germany, and very low for the time of year all over western Europe. Morning readings, 60° at Nemours and La Calle, at Malta, and Palermo, and exceeding 50° over Italy and the Adriatic, as well as at Buda-Pesth and Lemberg. Below 40° in most other places, and lowest of all, (1) 12° at Haparanda, 16° at Archangel, and below 30° over Finland and the northern half of Scandinavia generally; (2) 28° at Leith and Nairn, 30° at Parsonstown; (3) 31° to 34° over central France. Rising later to 50° at Parsonstown, and to between 44° and 47° on the Irish and Scotch coasts generally, but scarcely exceeding 40° on our south and east coasts all day.

Wind Westerly over the northern parts of Finland, Scandinavia, and Scotland—light generally, but blowing a gale at Christiansund; North-Easterly, moderate to strong, over the Channel, Bay of Biscay, and Spain; Northerly over France, north Germany, and the Baltic, but light Southerly over Russia. A well-defined cyclonic circulation observed over the Mediterranean and Adriatic—the South-Easterly winds over the Adriatic blowing hard in places. The South-Westerly wind increasing in force at the northern stations later, and the Northerly wind rising to a moderate gale over central France.

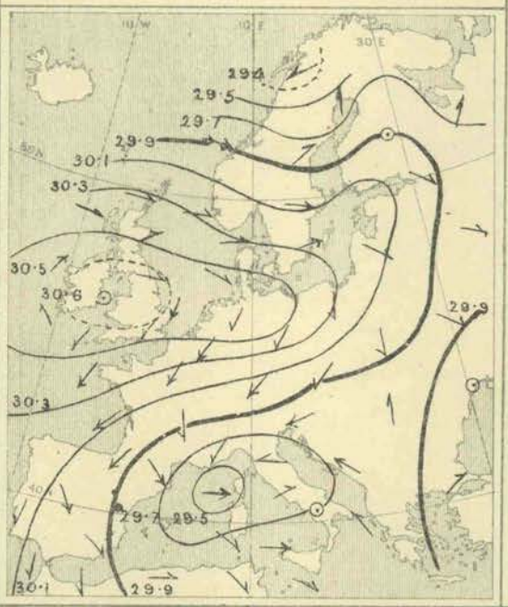
Barometer highest, (1) 30·5 ins. and more to 30·3 ins. in an anticyclone covering the British Islands and English Channel; (2) 30·1 ins. and more over central and south-eastern Russia. Lowest, 29·6 ins. and less over Lapland and the Kola Peninsula, as well as in a complex depression lying over the Mediterranean, and below 29·7 ins. in another disturbance covering eastern Prussia and the Baltic Provinces. The anticyclone over the United Kingdom increasing in intensity later.

Wednesday, 30th March.

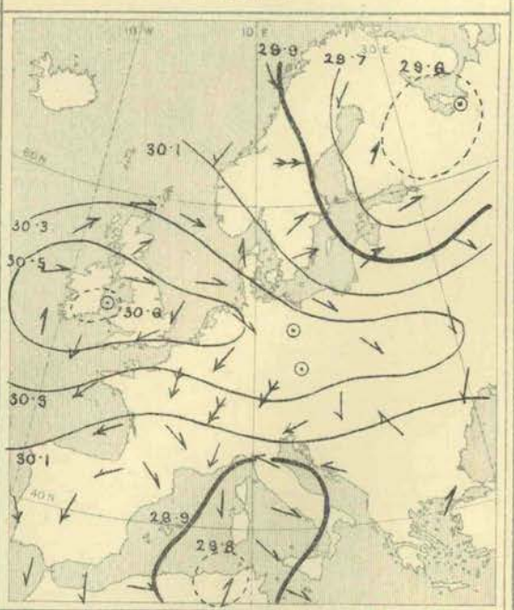
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright (1) over Ireland, England, the Netherlands, and north of France; (2) over Finland, the Baltic, Russia, and many parts of north Germany; dull, unsettled, and rainy over southern Europe and also in Norway, the Shetlands, and Hebrides—snow falling in the south-west of France, at Munich, and at Cracow. Large quantities of rain later, both in Norway and the south of France; weather continuing fine over the United Kingdom and north Germany.

Temperature rising decidedly in Norway and Scotland, falling decidedly in Poland, Austria, and on the shores of the Mediterranean. Morning readings exceeding 50° over the Adriatic, Italy, and Algeria only; exceeding 40° on the western and northern coasts of the British Islands and in the west of Norway; much lower elsewhere. Lowest of all (1) 14° at Haparanda, 16° at Uleaborg and St. Petersburg, 19° at Archangel; (2) 28° at Loughborough, 29° at York; (3) 32° to 34° over central France, Belgium, and north Germany. Rising later to between 50° and 56° in many parts of our Islands and some parts of France, but cold for time of year over France generally. Very cold over England at night.

Wind mainly Westerly to South-Westerly over the northern countries of Europe and in Scotland, mainly North-Easterly over central Europe, Northerly over Spain, and blowing strongly in many places, nearly calm over Ireland and the northern half of England. Not much change later, beyond an increase to a gale in the force of the North-Easterly wind at Paris.

Barometer highest 30·6 ins. and more to 30·4 ins. in an elongated anticyclone covering the British Islands, the North Sea, Denmark, and north Germany. Lowest 29·4 ins. and less, to 29·6 ins. in a depression lying over Finmark and the north of Norway, and 29·6 ins. and less in another disturbance over the northern parts of the Mediterranean. Gradients rather steep—for Easterly winds over Austria, Switzerland, and the south of France, and for Westerly winds over Scandinavia; the former decreasing later.

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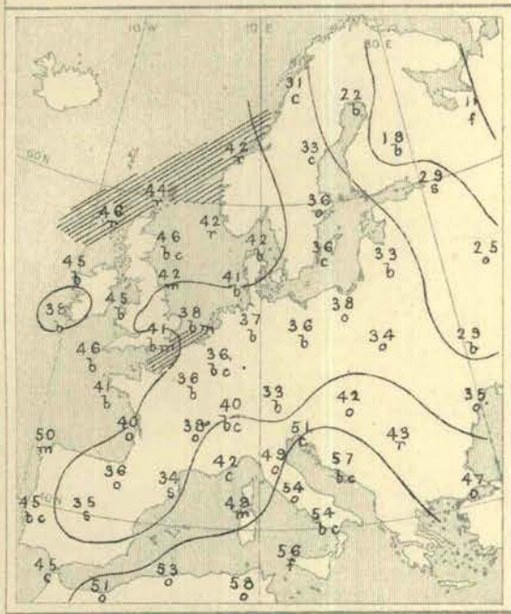
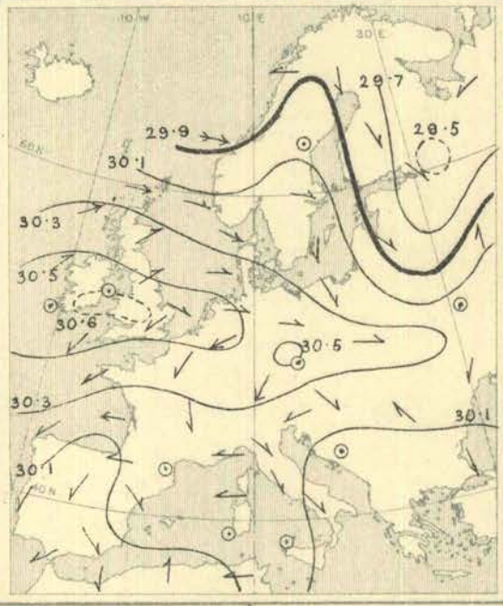
III.—SUMMARY OF WEATHER OVER EUROPE.

Thursday, 31st March.

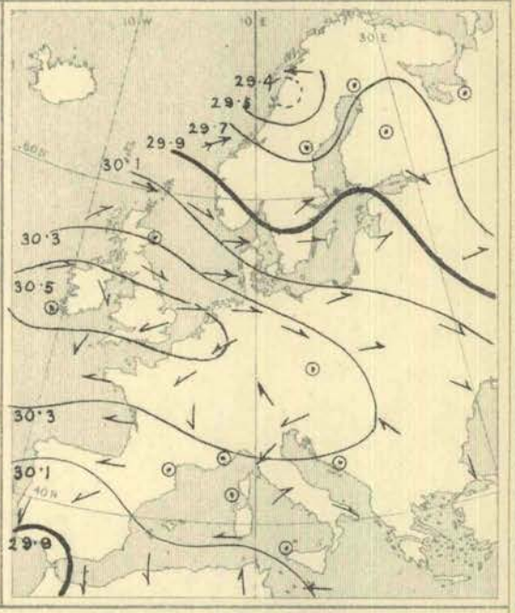
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the greater part of our Islands, western, central, and eastern Europe; cloudy and unsettled elsewhere, with rain in Norway, the extreme north of Scotland, and some parts of Spain, snow at Madrid, and also at St. Petersburg; a great deal of haze prevalent over England. Considerable rain in Norway later and small quantities in Scotland; some rain at Lisbon, Cape Béarn, Perpignan, and Turin also, as well as at Oran and Algiers. Weather clear and bright over England and France.

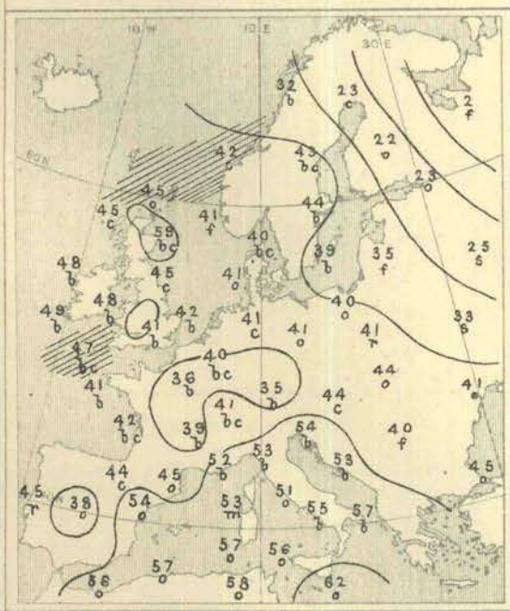
Temperature inclined to rise over north-western Europe, falling in the south-east and east. Morning readings exceeding 50° on the Algerian, Italian, and Dalmatian coasts, and exceeding 45° in the extreme north and north-west of our Islands, lower elsewhere. Lowest of all, (1) 11° at Archangel, 13° at Uleaborg, 18° at Kuopio, 24° at Hangö, 26° at Moscow; (2) 28° at Loughborough, 33° at York, 39° at Parsonstown. Rising during day to between 60° and 68° in many parts of Great Britain and in Italy, but not nearly so high over the greater part of France and Germany; falling fast again over Great Britain as night approached.

Wind moderate from South-West on our north-west coasts, Westerly over Norway and Denmark, and strong in places, North-Westerly over Finland and the Baltic. Calm over the central parts of Ireland and England, North-Easterly to Easterly over France, the Channel, Bay of Biscay, and Spain, very variable over the Mediterranean and south-eastern Europe.

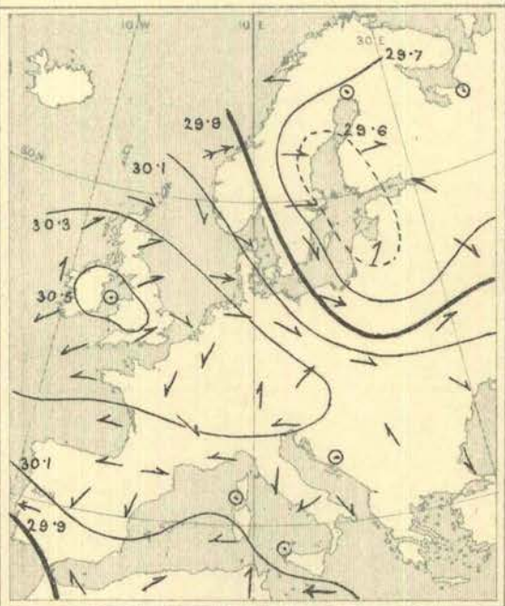
Barometer highest, 30·6 ins. and more to 30·4 ins. in an anticyclone covering the British Islands, the north of France, Netherlands, and north Germany. Lowest, 29·6 ins. and less in a "V"-shaped system over northern Russia; about 29·8 ins. in a shallow depression off the north-west of Norway; below 30·0 ins. over Algeria, and below 30·1 ins. in a shallow secondary spreading thence over Spain and the south-west of France. Falling in Norway later, rising in the south-west of France, steady in our Islands.

Friday, 1st April.

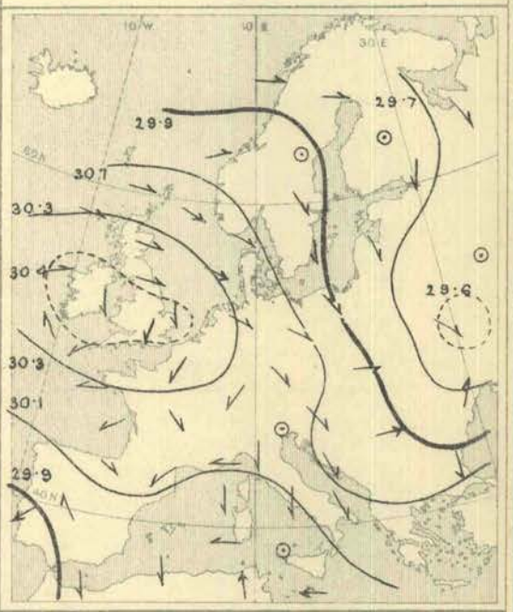
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over Ireland, England, France, Italy, and Dalmatia, as well as at the Swedish stations; cloudy, more or less, elsewhere, with snow over central Russia, rain in Poland, and also at Lisbon. Air very hazy in many parts of England. Rain falling later in several parts of Scandinavia, Russia, Spain, and Algeria, and snow at Kharkov; fog in some parts of our Islands and at Cuxhaven.

Temperature changing irregularly; rising in most parts of central and northern Europe. Morning readings below 60° at all stations excepting Malta, and below 50° over greater part of Europe, but considerably above 50° in the north-east of Scotland. Lowest of all, (1) 2° Fahr. at Archangel, 21° at Uleaborg, 23° at Haparanda and Moscow, and below the freezing point over Russia generally; (2) 30° at Loughborough, 36° at Oxford, 39° at Cambridge, York, and Parsonstown. Rising later to 70° and more at many of our northern and eastern stations, as well as at Paris, but remaining below that point in many parts of southern Europe. Daily range exceptionally large over the northern and eastern parts of the British Islands.

Wind Southerly to South-Westerly over the northern part of our Islands and light in force, North-Westerly over the eastern shores of the North Sea, moderate to strong in force, Westerly over Germany, South-Easterly over the Gulf of Finland, Easterly over the Channel, France, the Bay of Biscay, and Spain. No important change occurring during day.

Barometer highest, 30·5 ins. and more to 30·3 ins. in an anticyclone covering our Islands, the Netherlands, the north-east of France, western Germany, and the south-western half of the North Sea. Lowest, 29·6 ins. and less in a depression over northern Russia, the Gulfs of Bothnia and Finland; and 29·9 ins. and less in the extreme south-west of Spain. Gradients moderate to slight. Rising later over Sweden and northern Russia; no decided change elsewhere.

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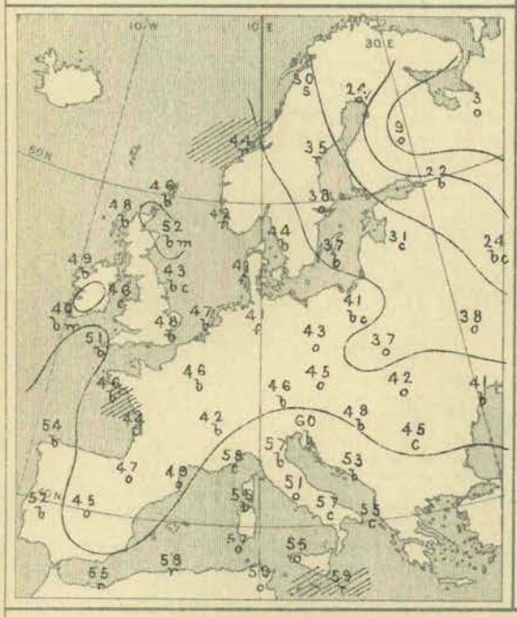
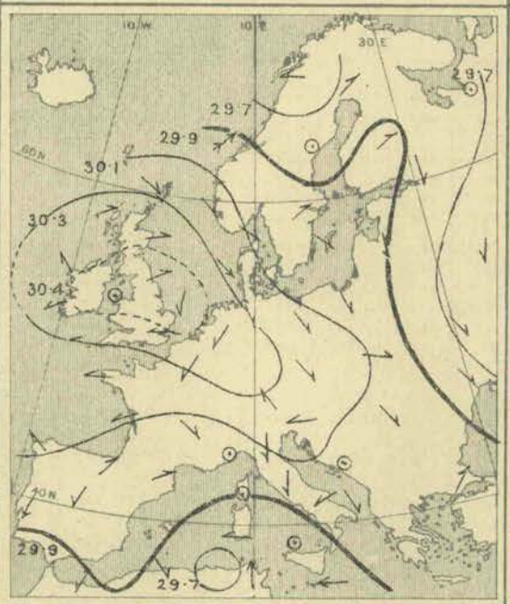
III.—SUMMARY OF WEATHER OVER EUROPE.

Saturday, 2nd April.

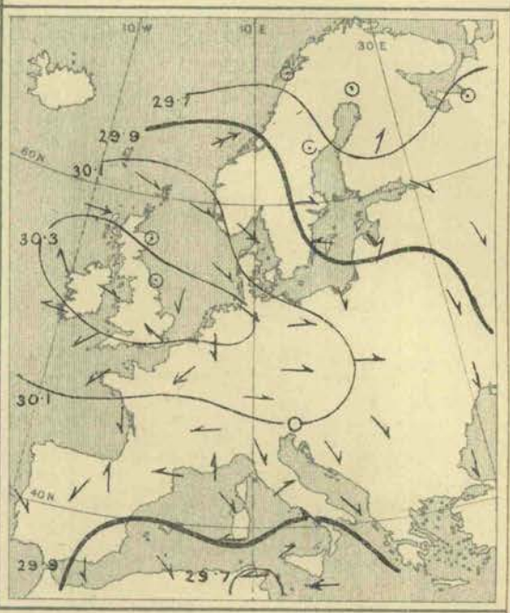
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather fine and bright over our Islands, France, Portugal, western Germany, and northern Italy. Cloudy or overcast elsewhere, with rain at many of the Scandinavian stations, as well as in Algeria. No important change occurring during day.

Temperature highest, 60° at Trieste, 59° at Barcelona, Tunis, and Malta, and 58° at Nice, Leghorn, and Algiers; above 55° at most of the Mediterranean stations, and above 50° in the east of Scotland. Lowest, 3° at Archangel, 9° at Knoplo, 16° at Uleaborg, 22° at St. Petersburg, and 23° at Helsingfors; below 40° in most parts of Sweden and Russia, as well as over the central parts of England and Ireland. Rising during day to between 65° and 70° in many parts of the United Kingdom and France, as well as at some of the Italian stations, but not reaching 65° in Spain and Portugal.

Wind light to fresh from the Eastward or North-Eastward over France, Spain, and the southern parts of our Islands. South-Westerly or Westerly in Scotland, light to fresh from the North-Westward over Denmark, Germany, and the greater part of Russia, Northerly in Italy. Cyclonic circulation reported over Algeria and Tunis. No important change occurring later.

Barometer highest, 30·1 ins. to 30·45 ins. in an anticyclone covering the greater part of western Europe. Lowest, 29·7 ins. and less in a large area lying over Russia, and also in two shallow depressions—one lying over the north of Norway and the other over Algeria. Anticyclone giving way slowly during day, and barometer falling in most western countries, but decided rise taking place over Russia.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

The weather experienced at the commencement of this week was cold and very unsettled; rain and snow showers fell in many parts of the British Islands and western Europe, and the distribution of pressure was of a very complex type. After Monday, however, an improvement set in over the united Kingdom, but for two days unusually heavy rain fell over the Mediterranean and south of France, owing to a depression which at 8 a.m. on Tuesday lay over Corsica, Sardinia, Tunis, and a part of Sicily. Over north-western Europe, however, conditions continued to improve, as a new anticyclone advanced over the United Kingdom and its neighbourhood from the north-westward. The winds fell light, the sky cleared generally, the air became unusually dry, and, although the nights continued very cold at the inland stations, the days became warm, and both on Friday and Saturday the thermometer rose to 70° or more over some parts of Great Britain.

BRIGHT SUNSHINE Values for the Week in addition to those found on page 74.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	46·8	?	52	?	EASTBOURNE	? 51·2	?	? 58	?
OSWALDKIRK (Yorkshire)	41·9	?	47	?	TENBY	61·5 *	?	69*	?
WORKSOP	43·7	+18·7	49	+19	NEWQUAY	62·0	?	70	?
THURCASTON (Leicestershire)	49·9	+26·8	56	+31	TORQUAY	68·0 *	?	76*	?
MARGATE	34·3	?	39	?	ARLEY COTTAGE (County Cavan)	56·1	?	63	?
WESTBOURNE (Sussex)	54·4 *	?	61 *	?	GUERNSEY	51·5 *	?	58*	?
BRIGHTON	50·7	?	57	?					

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

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VOL. IX. No. 14.] *Third Series.* WEEK ENDING SATURDAY, 9TH APRIL, 1892. [*Price 6d.* [*Annual subscription, post paid*, £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years' observations (1871-90). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the ten years 1881-90. RAINFALL.—*The Mean amounts* are those for the corresponding periods in the twenty-five years 1866-90, but the *Mean numbers of Rainy Days* are those for the ten years 1881-90, only. BRIGHT SUNSHINE.—*The Mean values* employed are those for the corresponding periods in the ten years 1881-90.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

DISTRICTS. (See p. 80.)	Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
			Averages of				For the Week.				From January 3rd, 1892.			
	Highest.	Lowest.	Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts. 0. SCOTLAND, NORTH	66	28	56·0	38·6	46·9	5 above.	49	+35	10	−15	134	+22	614	+155
1. SCOTLAND, EAST	68	27	55·2	37·2	45·8	4 above.	47	+24	13	−13	164	− 4	630	+178
2. ENGLAND, N.E.	70	30	54·7	38·7	46·3	4 above.	44	+22	9	−16	154	− 5	598	+149
3. ENGLAND, EAST	75	28	62·7	37·0	45·3	5 above.	72	+42	14	−11	182	−17	674	+166
4. MIDLAND COUNTIES	73	25	65·6	37·2	50·8	7 above.	82	+51	13	−13	233	+13	680	+185
5. ENGLAND, SOUTH	74	30	62·7	40·8	51·2	6 above.	69	+37	3	−15	225	−17	493	+107
Principal Grazing, &c., Districts. 6. SCOTLAND, WEST	67	30	57·4	40·5	48·6	6 above.	53	+30	4	−14	168	0	518	+144
7. ENGLAND, N.W.	72	31	59·6	41·2	50·0	6 above.	59	+35	2	−17	165	− 6	516	+137
8. ENGLAND, S.W.	73	36	62·1	43·6	52·4	8 above.	73	+45	0	−13	274	+15	381	+ 88
9. IRELAND, NORTH	69	35	58·8	43·4	50·7	7 above.	61	+32	0	−15	220	−12	417	+ 88
10. IRELAND, SOUTH	67	34	59·9	44·7	51·9	6 above.	69	+36	0	−13	286	−33	363	+108
— CHANNEL ISLANDS	69	39	59·1	46·3	52·4	5 above.	73	+41	0	− 3	320	− 2	160	+ 40

Rainfall.

DISTRICTS. (See p. 80.)	For the Week.			From January 3rd, 1892.			
	Number of Rainy Days.	Total Fall	More or less than the Mean for the Week.	Number of Rainy Days.	Difference from Mean.	Total Fall.	Difference from Mean.
		10ths of In.	10ths of In.			Ins.	Ins.
Principal Wheat-producing Districts. 0. SCOTLAND, NORTH	2	1	5 less.	65	− 4	11·4	− 3·0
1. SCOTLAND, EAST	1	less than ½.	5 less.	47	− 6	5·5	− 2·5
2. ENGLAND, N.E.	1	1	4 less.	48	− 1	4·3	− 1·7
3. ENGLAND, EAST	0	—	4 less.	49	+ 1	3·8	− 2·1
4. MIDLAND COUNTIES	0	—	4 less.	44	− 3	4·3	− 2·5
5. ENGLAND, SOUTH	0	—	4 less.	38	− 8	3·7	− 3·4
Principal Grazing, &c., Districts. 6. SCOTLAND, WEST	2	1	6 less.	49	− 9	8·1	− 6·5
7. ENGLAND, N.W.	2	1	4 less.	48	− 5	6·5	− 2·0
8. ENGLAND S.W.	0	—	6 less.	47	− 7	6·3	− 4·7
9. IRELAND, NORTH	1	1	5 less.	50	−12	6·2	− 3·2
10. IRELAND, SOUTH	2	2	4 less.	47	− 9	7·8	− 3·3
— CHANNEL ISLANDS	2	1	4 less.	54	− 5	7·3	− 1·8

Bright Sunshine.

DISTRICTS. (See p. 80.)	For the Week.				From January 3rd, 1892.			
	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts. 0. SCOTLAND, NORTH	38	+ 7	40	+ 8	261	+42	27	+ 4
1. SCOTLAND, EAST	33	+ 1	36	0	275	+ 9	28	0
2. ENGLAND, N.E.	32	+ 4	35	+ 4	284	+49	29	+ 5
3. ENGLAND, EAST	72	+41	79	+43	312	+31	31	+ 3
4. MIDLAND COUNTIES	56	+27	61	+30	298	+50	30	+ 5
5. ENGLAND, SOUTH	72	+41	78	+41	339	+81	34	+ 8
Principal Grazing, &c., Districts. 6. SCOTLAND, WEST	35	+ 4	38	+ 4	284	+45	29	+ 4
7. ENGLAND, N.W.	48	+20	52	+21	313	+75	32	+ 7
8. ENGLAND S.W.	60	+22	66	+23	385	+88	38	+ 8
9. IRELAND, NORTH	37	+ 7	40	+ 7	262	+20	26	+ 1
10. IRELAND, SOUTH	43	+ 9	47	+ 9	310	+15	31	+ 1
— CHANNEL ISLANDS	73	+34	80	+37	375	+18	37	+ 2

Bright Sunshine.—For several of the stations there are no "mean" values available, and the "difference from the mean" in some of the districts is consequently that of only a few of the stations.

General Remarks.

Weather continued extremely fine and bright throughout the period over all the southern and south-eastern parts of the Kingdom. Over the western and northern districts, however, it was cloudy or dull, with slight falls of rain for a few days, soon after the commencement of the week, but later on very fine weather was again experienced in those regions.

Temperature was much above the mean in all districts, the excess ranging from 4° in Scotland E. and England N.E., to 6° in England S. and some of the western districts, 7° in Ireland N. and the Midland Counties, and to 8° in England S.W. This excess was due to the unusually high readings during the daytime, the absolute maxima during the week varying between 66° and 69° in Ireland and Scotland, and between 70° and 75° over England. The lowest of the minima (which were generally registered on the 3rd) ranged from 25° in the Midland Counties, to 36° in England S.W., and to 39° in the Channel Islands.

Rainfall has again been much below the mean. In nearly all the English districts the weather was quite rainless.

Bright Sunshine shows a considerable decrease in the west and north from the very high values recorded there during the previous week, but in the east and south it was even more prevalent. The possible amount of duration ranged from 35 to 40 in most of the northern and north-western districts, to 61 in the Midland Counties, 66 in England S.W., 78 in England S., 79 in England E., and to 80 in the Channel Islands. The highest percentages at any individual station were 82 at Cambridge, Hastings, Torquay, and Jersey, 83 at Eastbourne, 85 at Geldeston, and 87 at Westbourne (Sussex). In London the percentage was 70.

Barometer and Wind.—Soon after the commencement of the week the anticyclone which had recently prevailed entirely disappeared. Some shallow depressions advanced to our western districts from the Atlantic, and the wind became Southerly or South-Westerly very generally. By the 6th, however, these disturbances had dispersed and the conditions again became anticyclonic, with light or moderate winds from the Eastward.

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II.—DATA from which the SUMMARY on page 79 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.)								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	53	38	49·3	41·1	45·0	+ 5·0	25	3	2	0·04	−0·47	*	*	*	*
	Stornoway	57	31	53·4	37·6	45·1	+ 3·4	40	12	2	0·03	−0·65	38·4	+ 7·4	41	+ 8
	Wick	65	35	53·3	40·0	46·3	+ 4·7	39	6	1	0·02	−0·37	*	*	*	*
	Lairg ℌ	65	28	59·6	33·4	45·9	+ 4·3	63	24	4	0·05	−0·50	*	*	*	*
	Glencarron ℌ	66	35	59·4	40·3	49·4	+ 8·1	59	5	2	0·49	−0·59	*	*	*	*
	Fort Augustus ℌ	64	32	57·6	37·6	47·1	+ 5·1	54	12	2	0·11	−0·37	31·6	?	34	?
	Fort William ℌ	66	30	59·4	40·3	49·4	+ 6·0	59	5	3	0·06	−0·84	43·0	?	46	?
1. SCOTLAND, E.	Nairn	61	30	54·9	36·7	45·4	+ 3·3	46	15	1	0·01	−0·31	*	*	*	*
	Aberdeen	64	34	52·3	38·1	44·9	+ 3·1	37	11	1	0·02	−0·48	31·4	+ 0·6	34	0
	Braemar ℌ	67	27	58·4	34·0	45·6	+ 6·4	59	22	0	—	−0·55	48·7†	?†	52†	?†
	Ochtertyre ℌ	68	28	59·1	37·4	47·7	+ 5·5	59	13	1	0·04	−0·53	*	*	*	*
	Leith	63	33	52·1	38·0	44·7	+ 1·2	36	11	0	—	−0·37	*	*	*	*
	Marchmont ℌ	64	35	54·4	38·7	46·2	+ 4·8	43	9	0	—	−0·57	30·0	?	32	?
2. ENGLAND, N.E.	Alnwick Castle	62	35	51·9	40·1	45·7	+ 4·3	34	5	2	0·04	−0·49	*	*	*	*
	Durham	70	32	55·5	38·1	46·4	+ 3·9	47	11	2	0·10	−0·41	23·2	− 2·8	25	− 2
	Shields	65	31	52·4	38·3	45·0	+ 2·6	37	10	2	0·07	−0·35	*	*	*	*
	Scarborough ℳ												*	*	*	*
	York	68	30	61·6	36·9	48·7	+ 5·0	68	14	1	0·06	−0·36	36·6	+ 9·0	40	+11
	Spurn Head	65	38	52·3	40·0	45·9	+ 3·1	36	6	0	—	−0·33	*	*	*	*
3. ENGLAND, E.	Hillington ℳ	72	28	64·7	36·9	50·4	+ 6·3	80	14	0	—	−0·40	64·4	+34·4	70	+38
	Yarmouth	57	40	50·7	41·0	45·6	+ 3·1	29	3	0	—	−0·41	*	*	*	*
	Geldeston	75	29	61·6	37·2	48·8	+ 4·7	68	13	0	—	−0·35	78·0	+42·9	85	+46
	Cambridge	73	29	69·9	34·1	51·1	+ 6·5	97	22	0	—	−0·38	75·7	+42·3	82	+47
	Rothamsted	71	32	66·5	35·8	50·4	+ 6·3	85	17	0	—	−0·45	70·7	?	77	?
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	70	28	66·0	35·3	49·9	+ 6·0	83	19	0	—	−0·38	*	*	*	*
	Loughborough	73	28	66·9	36·4	50·9	+ 6·3	86	16	0	—	−0·40	*	*	*	*
	Stamford (Ketton Hall)	72	25	65·7	33·7	49·2	+ 4·7	85	23	0	—	−0·43	*	*	*	*
	Cheadle ℳ	68	36	63·1	40·8	51·5	+ 8·9	72	3	0	—	−0·49	*	*	*	*
	Churchstoke ℳ	67	29	63·1	37·1	49·5	+ 7·0	73	14	0	—	−0·42	54·3	+24·3	59	+27
	Hereford ℳ	70	31	65·8	39·9	52·2	+ 7·7	80	6	0	—	−0·41	*	*	*	*
	Cirencester	69	31	66·3	36·3	50·6	+ 7·6	84	16	0	—	−0·50	64·3	+34·2	70	+36
	Oxford	70	36	67·9	38·0	52·2	+ 7·6	88	11	0	—	−0·41	64·1	+33·1	70	+36
5. ENGLAND, S.	London	73	36	68·1	40·7	53·7	+ 8·1	87	4	0	—	−0·41	64·8†	+38·6†	70†	+42†
	North Foreland	69	39	52·6	41·4	46·7	+ 2·7	35	2	0	—	?	*	*	*	*
	Strathfield Turgiss ℳ	71	30	68·6	35·1	51·1	+ 6·5	93	19	0	—	−0·40	*	*	*	*
	Dungeness	56	40	54·0	42·1	47·8	+ 3·6	41	0	0	—	−0·41	*	*	*	*
	Hastings (St. Leonards)	62	41	61·3	44·3	52·4	+ 6·6	73	0	0	—	−0·48	75·1	+38·2	82	+42
	Southampton	74	?38	70·7	41·3	55·4	+ 9·7	97	2	0	—	−0·48	72·2	+36·2	78	+39
	Hurst Castle	65	38	59·4	41·3	49·9	+ 5·1	58	2	0	—	−0·43	*	*	*	*
	Stowell ℳ	71	34	67·0	39·8	52·8	+ 8·3	85	6	0	—	?	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	66	35	60·7	44·1	52·0	+ 8·2	70	0	2	0·07	−1·03	*	*	*	*
	Glasgow	61	37	54·2	40·3	46·9	+ 4·2	41	5	2	0·03	−0·50	24·5	− 1·2	26	− 2
	Ardrossan	65	38	56·3	41·7	48·7	+ 5·1	48	1	1	0·03	−0·49	*	*	*	*
	Glenlee ℌ	67	30	59·1	35·8	47·1	+ 5·4	62	17	1	0·02	−0·71	*	*	*	*
	Douglas (Isle of Man)	59	33	56·5	40·7	48·2	+ 5·2	49	4	3	0·17	−0·40	45·0	+ 8·0	49	+ 9
7. ENGLAND, N.W.	Newton Reigny	72	31	63·6	37·2	48·3	+ 6·6	64	13	1	0·01	−0·44	51·1	+21·1	55	+23
	Stonyhurst	66	38	58·5	41·1	49·4	+ 6·4	56	3	2	0·40	−0·20	44·8	+16·3	49	+19
	Blackpool ℳ															
	Manchester	69	39	60·8	41·7	50·8	+ 7·4	63	1	1	0·03	−0·46	*	*	*	*
	Liverpool Obsy. (Bidston)	68	39	61·1	42·6	51·4	+ 6·6	66	0	2	0·05	−0·33	*	*	*	*
	Llandudno ℳ															
	Holyhead	70	41	57·1	43·6	50·0	+ 4·8	56	0	2	0·07	−0·40	*	*	*	*
8. ENGLAND, S.W.	Llandovery	73	36	66·4	40·1	52·9	+ 9·1	84	5	0	—	−0·68	*	*	*	*
	Pembroke	65	43	57·0	44·6	50·5	+ 5·9	60	0	2	0·04	−0·44	47·8	+ 9·6	52	+10
	Arlington (N. Devon)	69	39	65·0	43·3	53·6	+10·3	81	0	0	—	−0·69	*	*	*	*
	Cullompton ℳ	72	36	68·3	39·3	53·1	+ 8·5	89	8	0	—	−0·56	66·5	+34·1	72	+37
	Falmouth	62	41	56·7	46·4	51·3	+ 5·4	65	0	0	—	−0·73	57·7	+20·7	63	+23
	Plymouth	68	40	60·9	47·0	53·6	+ 6·8	81	0	0	—	−0·58	59·6	+22·9	65	+25
	Prawle Point	66	40	60·3	44·3	51·9	+ 7·2	69	0	0	—	−0·50	*	*	*	*
9. IRELAND, N.	Malin Head	59	43	52·6	44·3	48·3	+ 4·0	44	0	2	0·24	?	*	*	*	*
	Londonderry												*	*	*	*
	Mullaghmore	66	42	59·3	45·4	52·0	+ 6·5	70	0	1	0·01	−0·49	*	*	*	*
	Belmullet	67	43	60·1	45·7	52·6	+ 5·9	74	0	0	—	?	*	*	*	*
	Markree Castle	68	37	61·9	43·2	52·1	+ 8·2	71	0	0	—	−0·57	29·9	− 1·1	33	− 1
	Brookeborough	69	38	62·4	43·2	52·3	+ 9·3	72	0	1	0·05	−0·55	*	*	*	*
	Armagh	68	35	60·2	41·0	50·1	+ 6·7	61	3	2	0·05	−0·45	41·7	+14·0	45	+15
	Donaghadee	59	40	54·0	43·0	48·2	+ 4·2	43	0	2	0·06	−0·39	*	*	*	*
	Edgeworthstown	62	40	59·8	41·1	50·0	+ 7·1	60	3	0	—	−0·57	*	*	*	*
10. IRELAND, S.	Dublin	62	40	56·7	43·8	49·9	+ 4·2	55	0	2	0·07	−0·41	40·9	+ 6·1	44	+ 7
	Parsonstown	67	34	62·4	41·1	51·2	+ 6·8	68	3	1	0·07	−0·41	48·7	+15·1	53	+17
	Kilkenny	65	36	60·4	43·0	51·3	+ 7·1	65	0	1	0·22	−0·28	*	*	*	*
	Waterford	63	41	59·9	43·6	51·4	+ 5·7	66	0	2	0·18	−0·45	*	*	*	*
	Roche's Point	58	39	54·7	44·7	49·5	+ 3·2	53	0	2	0·13	−0·65	*	*	*	*
	Valencia	67	37	61·9	47·4	54·3	+ 7·5	86	0	3	0·42	−0·46	40·3	+ 3·3	44	+ 4
	Killarney	64	46	60·8	48·8	54·5	+ 8·4	88	0	2	0·24	?	*	*	*	*
	Foynes	66	39	62·1	45·1	53·2	+ 8·1	78	0	1	0·21	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	57	43	54·3	46·4	50·2	+ 3·2	57	0	3	0·22	−0·31	*	*	*	*
	Jersey	69	39	63·9	46·1	54·6	+ 7·1	88	0	1	0·06	−0·44	75·0	+33·7	82	+37

Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked ℌ with the Scottish Meteorological Society.

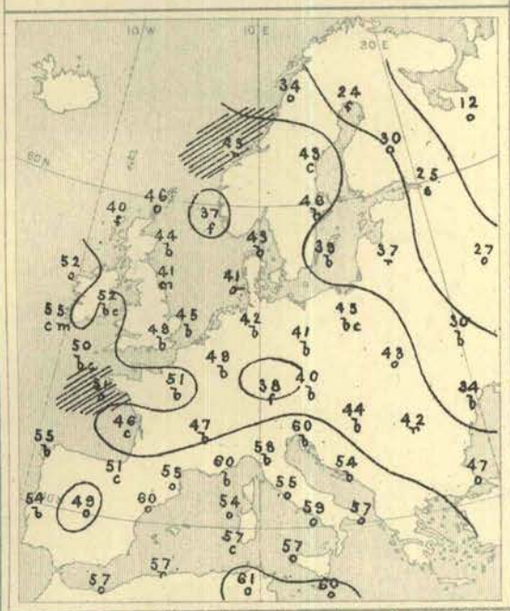
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory and the Meteorological Office Victoria Street. For additional Reports of Sunshine see last page.

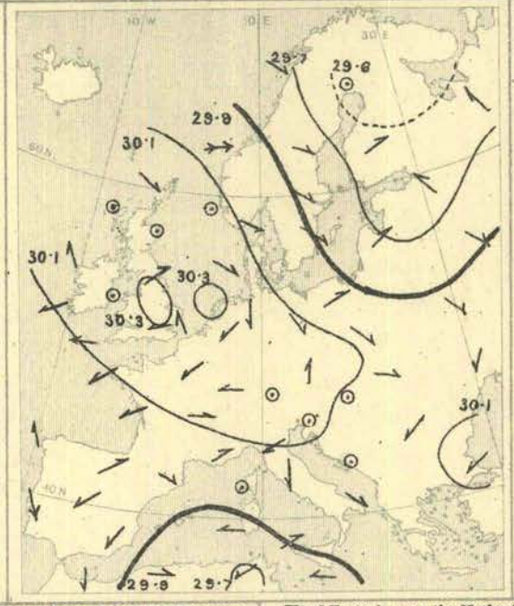
III.—SUMMARY OF WEATHER OVER EUROPE.

Sunday, 3rd April.

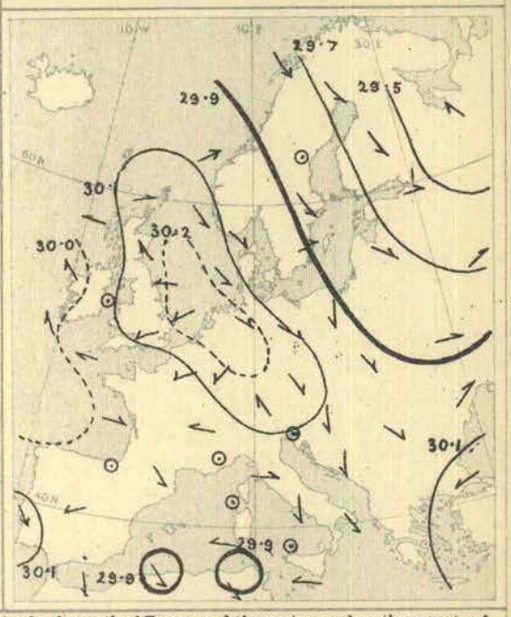
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather fine over the greater part of western and central Europe, but hazy or foggy on our own extreme north-west coasts. Dull at several of the Russian and Austrian stations, as well as in Spain, Algeria, and southern Italy, with snow at St. Petersburg, and rain at Cracow, Hermanstadt, and Algiers. Dull weather setting in later in the extreme west and north of our Islands, with slight rain at Valencia Island and in the Shetlands. Sky clearing in many parts of southern Europe.

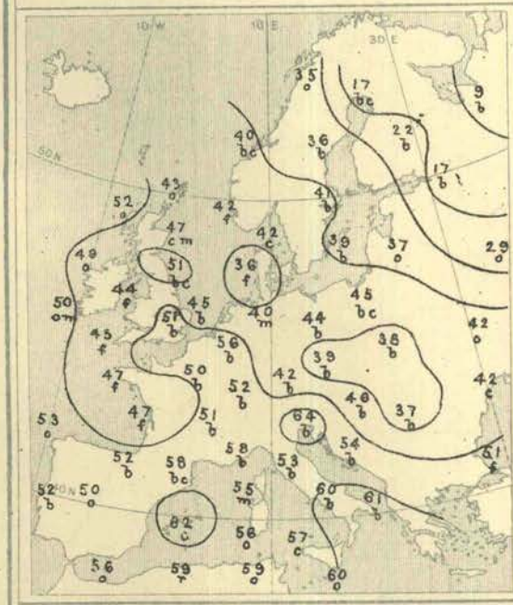
Temperature highest, 61° at La Calle, 60° at Nice, Barcelona, Malta, and Trieste, and 59° at Leghorn and Naples; above 55° at most of the Mediterranean stations, and just touching that point at Valencia Island. Lowest, 12° at Archangel, 23° at Haparanda, 24° at Uleaborg, 25° at St. Petersburg, and 26° at Kharkov; below 40° at most of the Russian and at several of the Scandinavian stations. Rapid rise taking place over our Islands and France during day; thermometer exceeding 70° at some of the English stations, and reaching 79° at Paris, where temperature was higher than in any part of Spain, Italy, or Algeria. Ground frost occurring at night in many parts of Great Britain.

Wind Easterly over the Netherlands, the north of France, and the western and southern parts of the United Kingdom; light or moderate in force generally, but strong in the western parts of the Channel. Calm or light and variable in the north and east of Great Britain; Westerly or North-Westerly over Scandinavia, Denmark, and north Germany, with a gale at Christiansand. South-Westerly over the Baltic Provinces, but North-Westerly in the south of Russia. Chiefly Easterly in Italy and North-Easterly in central Spain and Algeria. Subsequently veering to the South-Eastward in Ireland.

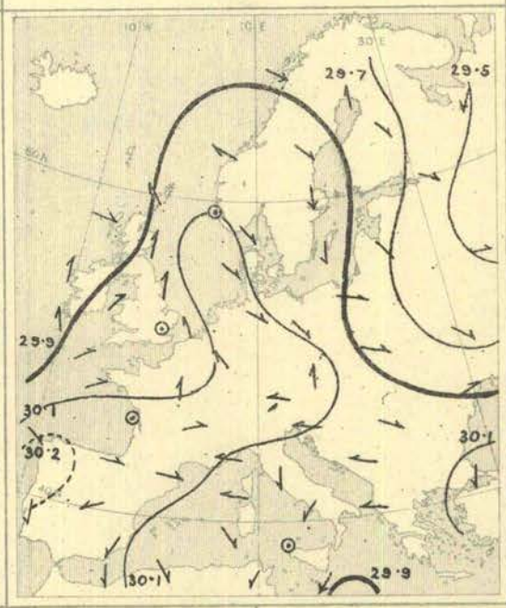
Barometer highest, 30·1 ins. to 30·3 ins. and upwards in a large anticyclone covering the greater part of central and north-western Europe. Lowest, 29·6 ins. and less in a large shallow depression lying over Lapland, 29·7 ins. and less in a shallow system lying over the Tunisian coasts. Anticyclone breaking up steadily during day, and barometer falling in nearly all parts of western Europe—most in Ireland. Depression over Lapland spreading slowly south-eastwards.

Monday, 4th April.

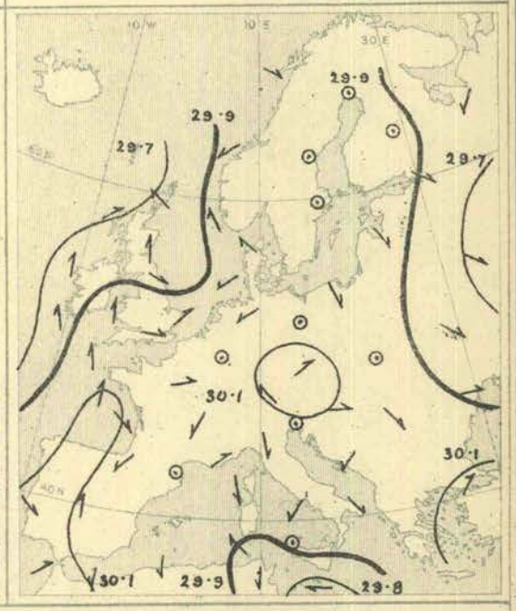
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather fine over by far the greater part of our Islands and the Continent, but foggy or hazy in many places, and dull on our own extreme west and north coasts. Dull also over the central and southern parts of Russia and rainy at the Algerian stations. Rain setting in over Ireland at night; sky becoming overcast in the south of Italy, with a thunderstorm at Malta.

Temperature highest, 64° at Trieste, 62° at Toulon and Palma, 61° at Brindisi, and 60° at Naples and Malta; above 55° at most of the Mediterranean stations, and above 50° in the south-east of England, as well as in the Hebrides. Lowest, 9° at Archangel, 17° at Haparanda and St. Petersburg, 19° at Uleaborg, and 22° at Kuopio; below the freezing point over northern and central Russia, and below 40° at many of the Scandinavian stations. Rapid rise taking place over England and France during day, thermometer exceeding 70° in many places, and reaching 73° in London and 76° at Paris. Daily maxima scarcely so high over southern Europe as over England, and considerably lower in Algeria.

Wind light from the Southward over the greater part of our Islands, but Westerly at the Channel stations. Northerly or North-Westerly over Sweden, Denmark, and western Russia; Westerly over the south of Russia. Light and variable over southern Europe and Algeria. Subsequently veering to the Westward in the eastern and central parts of England, but remaining Southerly in most other parts of the United Kingdom. No important change taking place at Continental stations.

Barometer highest, 30·2 ins. and upwards over Portugal; 30·1 ins. and upwards in a large anticyclone of irregular form lying over France, Germany, the Netherlands, and the eastern parts of the North Sea. Lowest, 29·5 ins. and less in a large depression lying over Russia, 29·8 ins. and less in a shallow system lying off the west of Scotland. Barometer falling steadily over western Europe and new depressions beginning to approach our western coasts in evening.

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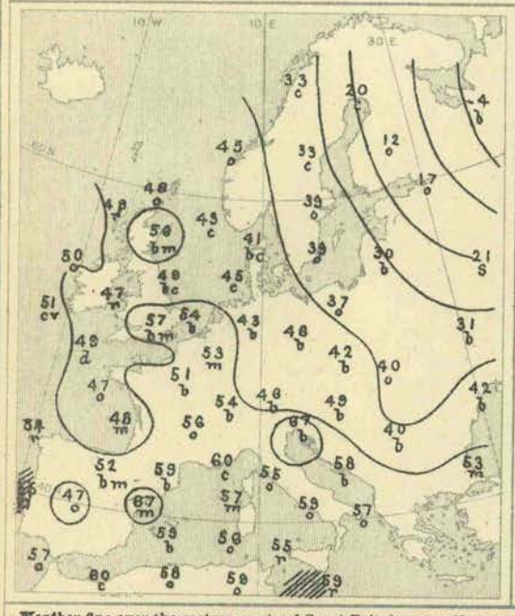
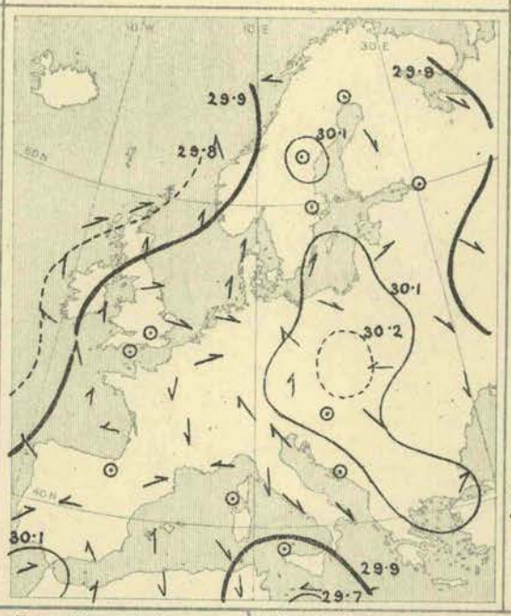
III.—SUMMARY OF WEATHER OVER EUROPE.

Tuesday, 5th April.

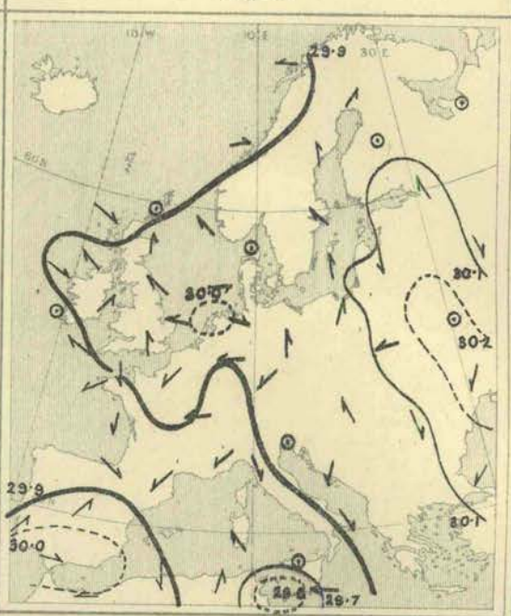
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather fine over the eastern parts of Great Britain, as well as over France, Denmark, Germany, Austria, and the south of Russia. Cloudy or overcast elsewhere, with fog or mist in the Channel and Bay of Biscay, and rain at several of our own western stations, as well as at Corunna, Palermo, and Malta. Snow falling at Moscow. Showers falling later at some of our own northern stations; thunderstorms experienced in some parts of France. Lunar halos seen in the south of England at night and thunderstorms occurring early next morning over the western part of the Channel.

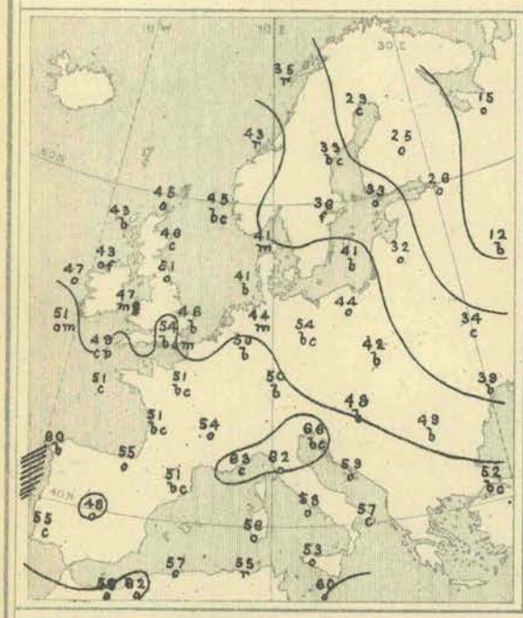
Temperature highest, 67° at Barcelona and Trieste, 66° at Pesaro, 64° at Bilbao, 63° at Leghorn, and 60° at Nice and Oran; above 55° over the Mediterranean and Adriatic generally, above 50° in many parts of our Islands, and as high as 57° in London and 56° at Aberdeen. Lowest, −4° at Archangel, +12° at Kuopio, 17° at St. Petersburg, and 19° at Uleaborg; below the freezing point over Russia generally, and below 40° over Sweden and the Baltic. Rising during day to 70° or more at several of the inland English stations, and also over the greater part of France; reaching 73° in London and 76° at Paris. Remaining below 70° over Algeria and southern Italy.

Wind Southerly (South-West to South-East) over the greater part of our Islands, and also over Norway, Denmark, Germany, and the Baltic. Light from between North and East in France, and from North or North-West over Algeria, Italy, and the south of Russia. Rather variable in Spain, but chiefly Easterly. Subsequently falling light and variable over Ireland, England, and the North Sea. Shifting to the Northward or North-Westward at the French stations; no important change elsewhere.

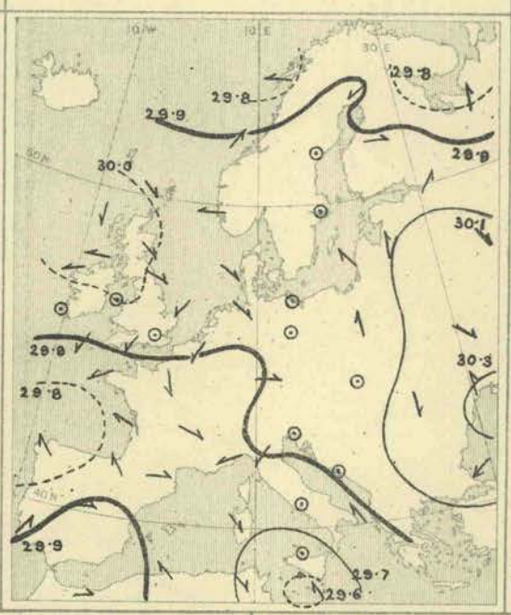
Barometer highest, 30·1 ins. to 30·2 ins. and upwards in a large anticyclone extending from Austria to the Baltic, as well as in a smaller system lying over Morocco and the extreme south of Spain. Lowest, 29·7 ins. and less in a shallow depression lying near Malta; 29·8 ins. and less in a large area lying to the westward and northward of our Islands, and also in another system lying over central Russia. Brisk fall of barometer taking place over France later; no important change elsewhere.

Wednesday, 6th April.

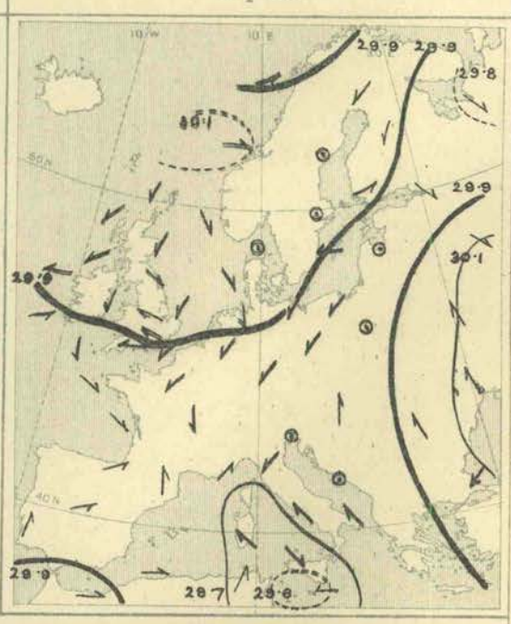
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather fine over the greater part of England, France, and central and eastern Europe. Cloudy or overcast elsewhere, with fog or mist on our own western coasts, as well as in the south of Scandinavia, and with rain in the west of Norway. Rain falling during day in some parts of Spain, Italy, and Algeria, and thunderstorms occurring at Scilly, Lyons, and Clermont. Thunderstorm at Liverpool at night, but no rain measured.

Temperature highest, 66° at Trieste, 65° at Nice and Leghorn, 62° at Florence and Oran, and 61° at Barcelona; above 55° at the Mediterranean and Adriatic stations generally, as well as on the coasts of the Spanish Peninsula; above 50° in several parts of England. Lowest, 18° at Moscow, 16° at Archangel, 20° at Uleaborg, 23° at Haparanda, and 25° at Kuopio; below the freezing point over the northern and central parts of Russia generally, and below 40° in Scandinavia and the south of Russia. Daily maxima again exceeding 70° in many parts of England, as well as over a considerable portion of central and southern Europe; highest readings, 81° at Rochefort and Croisette and 78° at Charleville.

Wind light from the Eastward or North-Eastward over the greater part of England and France. Variable in Ireland and Scotland, as well as over Scandinavia, Denmark, Germany, southern Europe, and Algeria. Light from the Southward over the west and south of Russia, and from the North-Westward or Northward over central Russia. North-Easterly breezes setting in later over Ireland and Scotland; no important change elsewhere.

Barometer highest, 30·3 ins. and upwards over the Black Sea; 30·1 ins. and upwards in a large anticyclone lying over central and southern Russia, as well as in another system lying over the northern parts of our Islands. Lowest, 29·6 ins. and less in a small depression lying near Malta; 29·8 ins. and less in two other systems lying respectively over the White Sea and off the north-west of Norway, as well as in a third lying over the Bay of Biscay. No important change occurring during day.

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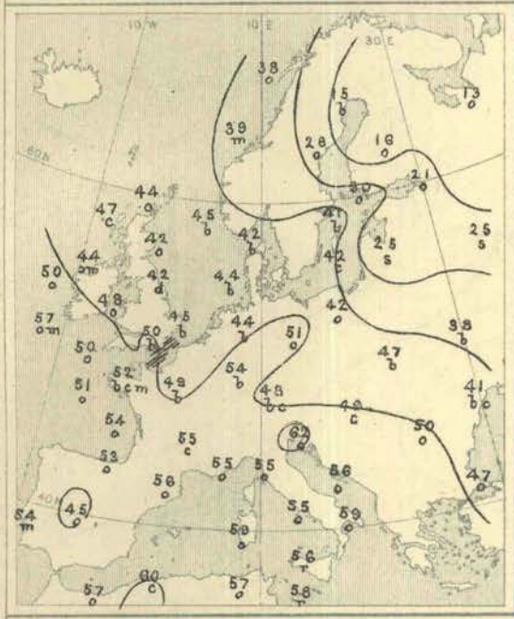
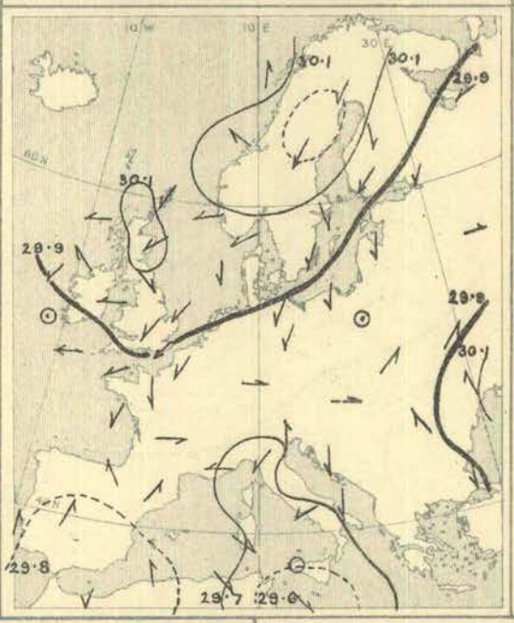
Thursday, 7th April.

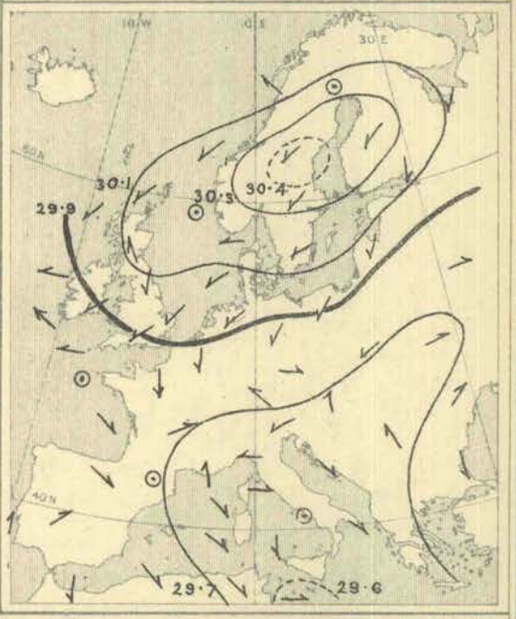
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather fine over the greater part of western, central, and eastern Europe, but dull and misty in the extreme west, north, and north-east of our Islands. Cloudy or overcast over the northern parts of Russia and Scandinavia, with snow at Helsingfors, Riga, and Moscow; dull also over Spain, Italy, and the Mediterranean, with rain at Lisbon, Palermo, and Malta. Thunderstorms occurring later at Valencia Island, and also at several of the French stations.

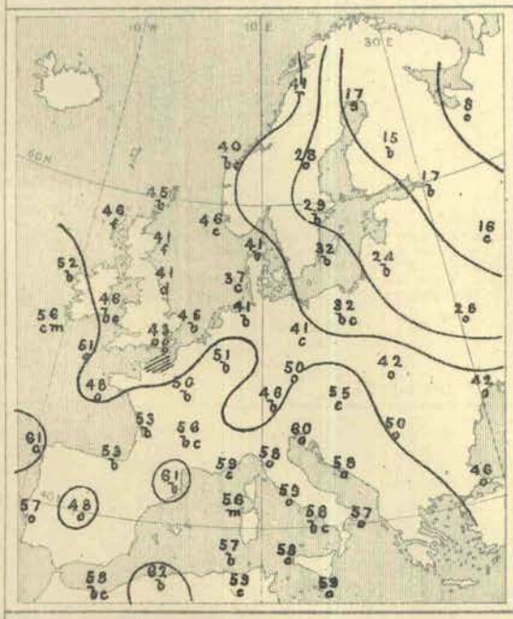
Temperature highest, 62° at Trieste, 60° at Algiers, and 59° at Cagliari; above 55° at most of the Mediterranean and Adriatic stations, above 50° in the south of our Islands. Lowest, 13° at Archangel, 15° at Haparanda, 16° at Kuopio, 18° at Uleaborg, and 21° at St. Petersburg; below the freezing point over the northern parts of Sweden and Russia. Daily maxima over our Islands somewhat lower than of late, but thermometer exceeding 65° in many parts of England and Ireland. Rising above 70° in France, and reaching 75° at Belfort, 76° at Charleville, and 77° at Cape Béarn. Daily maxima below 65° in the south of Italy.

Wind light or moderate from the North-Eastward over Finland, Sweden, the Baltic, Denmark, the Netherlands, and the east and south-east of England. Fresh or strong from the Eastward over the western parts of the Channel, and light from the same quarter on the west coasts of our Islands and Norway. Light and very variable over central and southern Europe, but North-Westerly over Tunis and the adjacent parts of the Mediterranean. No important change occurring during day, beyond the appearance of light Westerly airs over the southern parts of France.

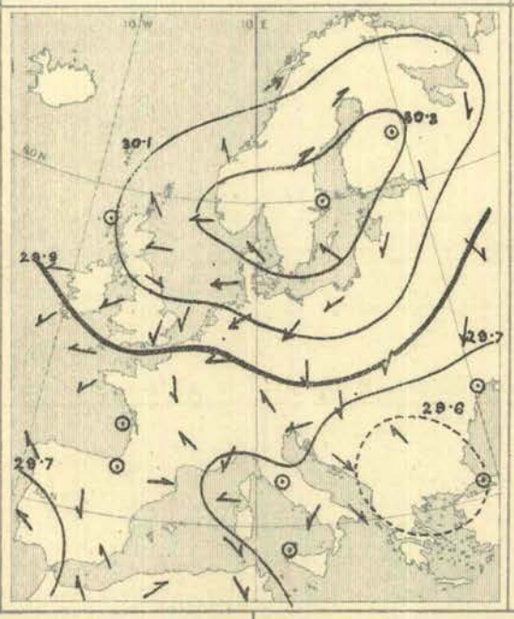
Barometer highest, 30·1 ins. to 30·2 ins. in three anticyclonic systems—one lying over Scandinavia, another over the north and east of Scotland, and a third over the south of Russia. Lowest, 29·6 ins. and less in a depression lying off the Tunisian and Sicilian coasts; large shallow area of low readings (29·8 ins. and less) lying over the Bay of Biscay, France, Switzerland, and south Germany. Anticyclone over Scandinavia increasing later both in size and height.

Friday, 8th April.

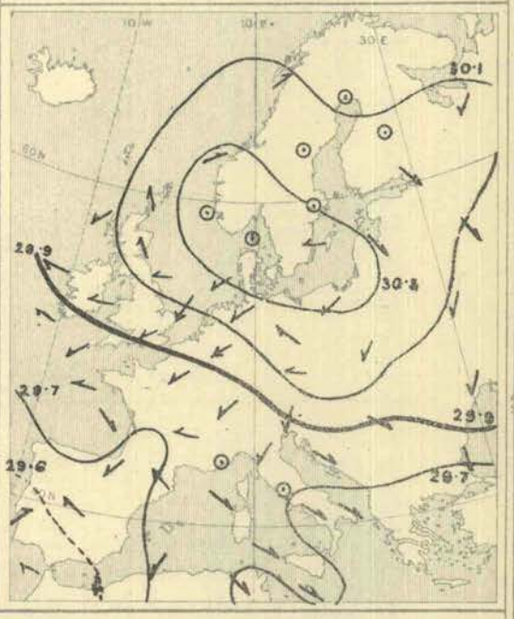
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather fine over a considerable portion of western and central Europe, but foggy in Scotland, and dull and hazy over the inland parts of England. Dull in the northern parts of Russia and Scandinavia, with rain at Bodö and snow at Haparanda; dull also over southern Europe, but fine in Algeria. Thunderstorm occurring at Lyons in evening, and lunar halos seen in the south-east of England. Considerable falls of rain at Lisbon and Constantinople.

Temperature highest, 64° at Bilbao, 63° at Algiers, 61° at Corunna and Barcelona, and 60° at Trieste; above 55° over southern Europe and the Mediterranean generally, as well as at Valencia Island. Lowest, 8° at Archangel, 15° at Uleaborg and Kuopio, 16° at Moscow, and 17° at Haparanda and St. Petersburg; below the freezing point over Sweden and Russia generally, and below 20° over Denmark, north Germany, and central Scotland. Rising during day to 65° or more at several of the English stations, and exceeding 70° in France; highest reading of all, 76° at Paris and Perpignan. Remaining below 70° at several of the Spanish and Italian stations.

Wind light to fresh from the North-Eastward over Ireland, England, the Netherlands, Germany, and the south of Russia; Southerly in the north of Scotland, South-Westerly in the north of Scandinavia. Light and variable over the southern parts of France, North-Westerly in Italy and Tunis, South-Easterly in Spain and Algeria. North-Easterly wind setting in later over France. No important change occurring elsewhere.

Barometer highest, 30·1 ins. to 30·4 ins. in a large anticyclone covering all the more northern parts of Europe. Lowest, 29·6 ins. and less in a large shallow depression lying over Turkey and the Balkan Provinces; 29·7 ins. and less in another system lying off the Portuguese coasts. Very little change observed over western Europe during day, but depression over Turkey moving away to the southward.

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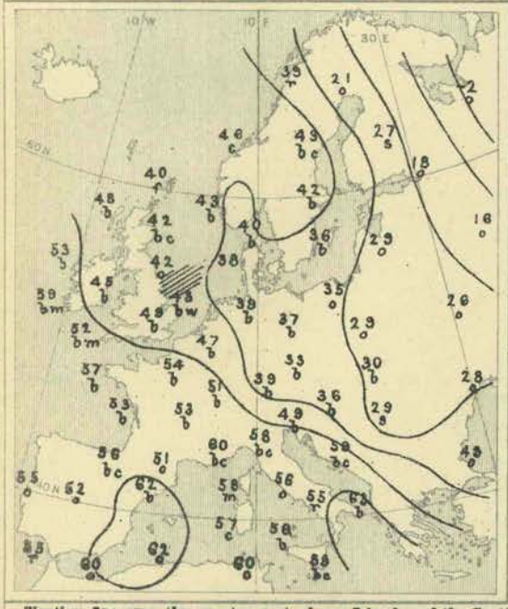
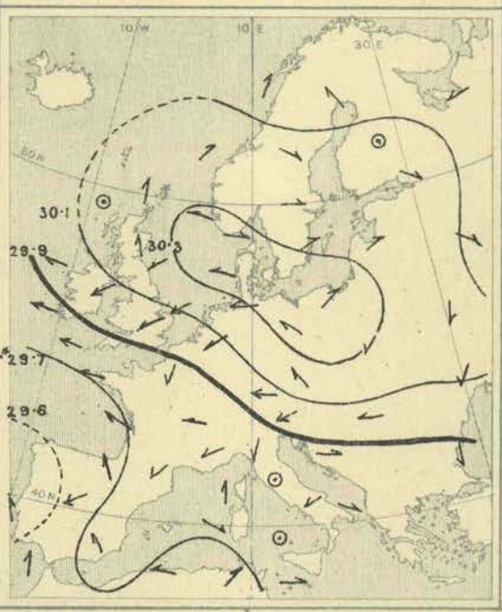
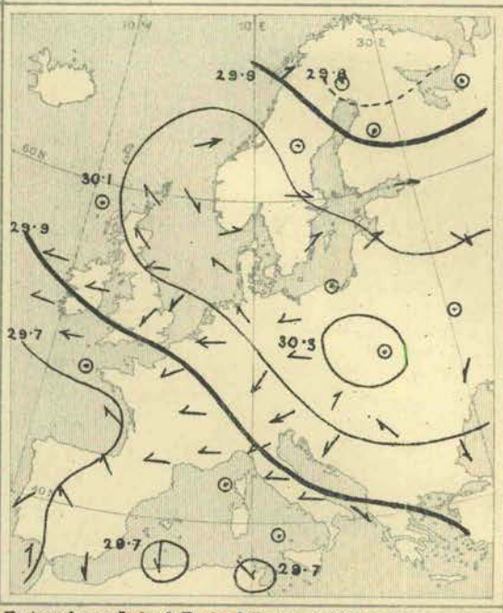
III.—SUMMARY OF WEATHER OVER EUROPE.

Saturday, 9th April.

Temperature and Weather.	Barometer and Wind.	
8 a.m.	8 a.m.	6 p.m.







Weather fine over the greater part of our Islands and the Continent, but dull over Russia, the north of Scandinavia, and the south of Austria, with rain at Christiansund and snow at Kuopio, Helsingfors, and Hermanstadt. Dull also in Spain, Algeria, and central Italy, with rain at Naples and Nemours. Heavy rain falling later in the west of Norway and over the southern parts of the Spanish Peninsula (1·5 ins. at Lisbon).

Temperature highest, (1) 63° at Brindisi, 62° at Barcelona and Algiers, 61° at Sfax, and 60° at Oran; (2) 59° at Valencia Island, 55° at Jersey, and 53° at Belmullet. Lowest, −2° Fahr. at Archangel, +16° at Moscow, 18° at St. Petersburg, 21° at Haparanda, and 22° at Kharkov; below the freezing point over the greater part of Russia and Austria, and below 40° in most parts of Denmark and Germany. Rising later to 65° or more at some of the English and Irish stations, and to 70° or more over France and the south of Italy; highest readings of all, 79° at Rochefort and 77° at Brest.

Wind light to fresh from the Eastward over Ireland, England, France, and the greater part of central and southern Europe. Light from the Southward in the north and east of Scotland, from the South-Westward in the west of Norway, and from the Westward over northern and central Russia. Chiefly Southerly in Algeria and the south of Spain. No important change occurring during day.

Barometer highest, 30·1 ins. to 30·35 ins. in a large anticyclone covering the greater part of northern, central, and eastern Europe, and spreading over the northern and eastern parts of the United Kingdom. Lowest, 29·6 ins. and less in a shallow depression lying over the western parts of the Iberian Peninsula. Another depression appearing later over Lapland, and barometer falling rather decidedly over the northern parts of Russia and Scandinavia.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟿ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

The anticyclone which covered western and central Europe at the close of last week dispersed soon after the commencement of the present period, and a series of shallow depressions began to travel northwards along our own western coasts, occasioning Southerly winds over the United Kingdom, with cloudy unsettled weather in the west and north. On the 6th and 7th, however, a new high-pressure system formed over Scandinavia and the extreme northern parts of the Atlantic, and in the course of the next few days this spread southwards until it embraced all but the southern European countries. The Southerly wind in our Islands consequently gave way to breezes from the Eastward, and during the concluding days of the week a current from this quarter, or from North-East, dominated the greater part of the Continent, the weather being fine and dry, excepting in Spain and some parts of France, where rains were rather frequent, with occasional thunderstorms. Over the southern parts of England the week was unusually fine and sunny, with high day temperatures, but with somewhat cold nights.

BRIGHT SUNSHINE Values for the Week in addition to those found on page 80.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	22·0	?	24	?	EASTBOURNE	75·9	?	83	?
OSWALDKIRK (Yorkshire)	36·6	?	40	?	TENBY	55·0 *	?	60 *	?
WORKSOP	38·4	+11·7	42	+13	NEWQUAY	75·2 *	?	82 *	?
THURCASTON (Leicestershire)	59·8	+34·9	65	+39	TORQUAY				
MARGATE	61·8	?	67	?	ARLEY COTTAGE (County Cavan)	39·5	?	43	?
WESTBOURNE (Sussex)	80·3 *	?	87 *	?	GUERNSEY	71·1 *	?	77 *	?
BRIGHTON	74·4	?	81	?					

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.
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VOL. IX. No. 15.] *Third Series.* WEEK ENDING SATURDAY, 16TH APRIL, 1892. [*Price 6d.* [*Annual subscription, post paid*, £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years' observations (1871-90). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the ten years 1881-90. RAINFALL.—*The Mean amounts* are those for the corresponding periods in the twenty-five years 1866-90, but the *Mean numbers of Rainy Days* are those for the ten years 1881-90, only. BRIGHT SUNSHINE.—*The Mean values* employed are those for the corresponding periods in the ten years 1881-90.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 85.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1892. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	67	17	45·9	27·6	36·3	6 below.	11	− 9	50	+29	145	+17	664	+182
	1. SCOTLAND, EAST -	64	11	45·3	27·8	36·2	7 below.	9	−19	50	+30	173	−13	730	+209
	2. ENGLAND, N.E. - -	65	20	41·5	30·7	37·2	6 below.	7	−18	39	+21	160*	−19	636*	+171
	3. ENGLAND, EAST -	70	23	48·3	31·3	35·4	5 below.	18	−17	39	+21	200	- 31	713	+189
	4. MIDLAND COUNTIES	68	19	50·3	29·4	39·3	6 below.	23	−13	46	+28	256	+ 2	726	+214
	5. ENGLAND, SOUTH -	70	23	51·1	34·6	42·4	4 below.	34	− 4	21	+10	259	−19	514	+116
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	67	17	49·1	29·8	39·0	5 below.	20	− 8	45	+30	188	− 8	563	+175
	7. ENGLAND, N.W. -	67	14	49·2	32·3	40·4	4 below.	20	− 9	37	+24	185	−13	553	+161
	8. ENGLAND, S.W. -	72	21	51·8	36·3	43·6	2 below.	35	+ 1	16	+ 7	309	+14	397	+ 96
	9. IRELAND, NORTH -	69	18	50·4	32·8	41·2	4 below.	24	− 9	35	+23	244	−22	452	+113
	10. IRELAND, SOUTH -	70	21	53·1	34·3	43·2	3 below.	41	+ 4	22	+12	327	−33	385	+122
	— CHANNEL ISLANDS -	72	32	51·8	41·4	46·4	2 below.	33	− 5	2	+ 1	353	− 7	162	+ 41

Rainfall.

	DISTRICTS. (See p. 86.)	For the Week. Number of Rainy Days.	Total Fall	More or less than the Mean for the Week.	From January 3rd, 1892. Number of Rainy Days.	Difference from Mean.	Total Fall.	Difference from Mean.
			10ths of In.	10ths of In.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	3	2	4 less.	68	− 5	11·6	− 3·4
	1. SCOTLAND, EAST -	3	2	3 less.	50	− 7	5·7	− 2·8
	2. ENGLAND, N.E. - -	5	3	1 less.	53	0	4·6	− 1·8
	3. ENGLAND, EAST -	5	8	4 more.	54	+ 2	4·6	− 1·7
	4. MIDLAND COUNTIES-	3	3	1 less.	47	− 3	4·6	− 2·7
	5. ENGLAND, SOUTH -	2	3	1 less.	40	− 9	4·0	− 3·6
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	2	1	5 less.	51	−10	8·2	− 7·1
	7. ENGLAND, N.W. - -	3	3	1 less.	51	− 6	6·8	− 2·1
	8. ENGLAND S.W. - -	3	3	3 less.	50	− 7	6·6	− 5·0
	9. IRELAND, NORTH -	3	2	4 less.	53	−12	6·4	− 3·5
	10. IRELAND, SOUTH -	2	1	5 less.	49	−11	7·9	− 3·8
	— CHANNEL ISLANDS -	4	7	2 more.	58	− 5	8·0	− 1·5

Bright Sunshine.

	DISTRICTS. (See p. 86.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1892. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	48	+16	49	+17	309	+ 57	29	+ 5
	1. SCOTLAND, EAST -	51	+27	53	+27	326	+ 32	31	+ 3
	2. ENGLAND, N.E. - -	44	+15	46	+16	328	+ 71	30	+ 6
	3. ENGLAND, EAST -	39	+ 5	41	+ 4	351	+ 39	32	+ 3
	4. MIDLAND COUNTIES-	43	+25	45	+27	341	+ 67	31	+ 6
	5. ENGLAND, SOUTH -	48	+15	50	+12	387	+102	35	+ 9
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	49	+15	51	+15	333	+ 59	31	+ 6
	7. ENGLAND, N.W. - -	49	+18	51	+18	362	+ 96	33	+ 8
	8. ENGLAND S.W. - -	51	+16	54	+16	439*	+105	40	+ 9
	9. IRELAND, NORTH -	58	+28	60	+29	320	+ 45	30	+ 4
	10. IRELAND, SOUTH -	64	+27	68	+28	374	+ 41	34	+ 3
	— CHANNEL ISLANDS -	50	+ 5	53	+ 6	425	+ 28	38	+ 2

Bright Sunshine.—For several of the stations there are no "mean" values available, and the "difference from the mean" in some of the districts is consequently that of only a few of the stations.

General Remarks.

Weather, after continuing fine, warm, and dry until the 11th, suddenly became much colder and unsettled in all parts of the Kingdom, with showers of sleet or snow and occasional very bright intervals. The snow experienced in Yorkshire on the 14th, and over our south-eastern counties towards the end of the week, was unusually heavy for time of year.

Temperature was below the mean in all districts, the deficit ranging from 2° in the Channel Islands and England S.W., to 6° in Scotland N., England N.E., and the Midland Counties, and to 7° in Scotland E. The highest of the maxima were recorded either on the 10th or 11th, when the thermometer rose to between 64° and 67° in Scotland, 69° and 70° in Ireland, and 65° and 72° in England. During the greater part of the week the daily maxima (excepting in the south-west) were not much above 40°. The lowest of the minima were registered either on the 15th or 16th, and were extremely low for the time of year. In Scotland E. the thermometer fell to 11°, in England N.W. to 14°, in Scotland N. and W. to 17°, in Ireland N. to 18°, and in the Midland Counties to 19°; elsewhere the minima ranged from 20° in England N.E., to 23° in England E. and S., and to 32° in the Channel Islands.

Rainfall was rather more than the mean in England E. and the Channel Islands, but less in all other districts. The heaviest fall of rain and snow at any individual station was that measured at Sittingbourne on Saturday morning, when the gauge yielded 1·22 ins.

Bright Sunshine was less prevalent generally than during the preceding week, but again considerably exceeded the mean value. The percentage of the possible duration ranged from 41 in England E., to between 45 and 54 in other parts of Great Britain, and to between 60 and 68 in Ireland.

Barometer and Wind.—The anticyclonic distribution of pressure which had prevailed during the preceding week gave way entirely by the evening of the 12th, and some local irregularities in pressure appeared over our Islands and their neighbourhood. No well-defined depression, however, was observed until the 15th, when a small but well-formed system passed eastwards over the Channel coasts, and afterwards north-eastwards to the North Sea. Northerly or North-Easterly winds, generally of moderate force, prevailed throughout the period, but at the end of the week the depression in the south caused strong winds or slight gales on our extreme south-east coasts.

* This value has been altered slightly owing to the receipt of further information.

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II.—DATA from which the SUMMARY on page 85 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	50	27	41·7	30·6	35·9	− 4·9	0	43	4	0·17	−0·32	*	*	*	*
	Stornoway	56	24	44·1	29·7	36·6	− 6·0	6	42	5	0·31	−0·31	50·8	+15·8	52	+17
	Wick	50	23	42·4	29·4	36·1	− 6·4	4	43	4	0·38	0·00	*	*	*	*
	Lairg	65	17	48·3	22·6	34·8	− 7·1	18	68	4	0·18	−0·34	*	*	*	*
	Glencarron	67	17	48·3	25·9	36·6	− 5·7	18	57	2	0·29	−0·71	*	*	*	*
	Fort Augustus	57	19	46·7	26·4	35·9	− 7·3	13	53	3	0·15	−0·33	41·7	?	43	?
	Fort William	62	22	48·5	28·5	38·0	− 6·5	18	48	2	0·05	−0·79	50·4	?	52	?
1. SCOTLAND, E.	Nairn	52	22	45·1	27·9	36·1	− 7·4	9	49	3	0·23	−0·07	*	*	*	*
	Aberdeen	49	23	41·9	29·4	36·3	− 6·8	5	43	4	0·31	−0·16	59·2	+26·8	61	+27
	Braemar	59	11	46·1	22·0	33·5	− 6·7	11	69	5	0·18	−0·37	56·3†	?†	58†	?†
	Ochtertyre	64	23	46·7	28·0	36·9	− 6·4	13	49	3	0·12	−0·43	*	*	*	*
	Leith	48	26	44·9	31·1	37·7	− 6·8	8	38	2	0·14	−0·24	*	*	*	*
	Marchmont	55	22	45·0	28·6	36·4	− 6·1	8	46	3	0·30	−0·27	52·8	?	55	?
2. ENGLAND, N.E.	Alnwick Castle	49	22	41·4	29·9	35·4	− 6·8	0	46	6	0·32	−0·21	*	*	*	*
	Durham	55	20	45·3	27·2	35·8	− 7·7	9	51	6	0·14	−0·36	41·0	+15·0	43	+16
	Shields	50	25	43·7	30·3	36·7	− 6·6	5	40	2	0·10	−0·32	*	*	*	*
	Scarborough	48	30	41·9	33·1	37·3	− 6·9	0	33	5	0·32	−0·15	*	*	*	*
	York	65	24	50·7	25·1	39·2	− 5·6	24	46	4	0·63	+0·21	45·3	+15·8	47	+16
	Spurn Head	48	31	43·9	34·3	38·9	− 4·9	5	27	5	0·50	+0·17	*	*	*	*
3. ENGLAND, E.	Hillington	64	23	48·4	31·1	39·3	− 5·8	18	39	5	0·73	+0·31	39·0	+ 6·0	41	+ 7
	Yarmouth	49	31	44·4	35·7	39·8	− 3·8	7	22	3	0·39	+0·59	*	*	*	*
	Geldeston	60	23	47·5	30·0	38·3	− 5·7	15	43	5	1·44	+1·09	42·7	+ 5·5	45	+ 5
	Cambridge	70	24	51·6	28·7	39·6	− 6·1	27	49	5	0·48	+0·09				
	Rothamsted	66	27	49·6	30·9	39·8	− 4·8	21	41	5	0·15	−0·34	33·8	?	36	?
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	66	25	50·9	28·6	39·2	− 6·1	25	49	2	0·47	+0·09	*	*	*	*
	Loughborough	66	23	50·6	28·1	38·8	− 7·0	24	51	3	0·34	−0·08	*	*	*	*
	Stamford (Ketton Hall)	65	26	50·4	29·6	39·5	− 6·3	24	46	4	0·24	−0·21	*	*	*	*
	Cheadle	64	26	48·5	30·5	39·1	− 4·7	18	42	3	0·27	−0·23	*	*	*	*
	Churchstoke	65	21	49·7	26·6	37·7	− 5·9	22	56	4	0·45	+0·03	49·9	+18·3	52	+19
	Hereford	67	24	51·3	30·5	40·4	− 5·1	26	43	3	0·32	- 0·10	*	*	*	*
	Cirencester	67	19	50·1	30·6	39·9	− 4·6	23	42	4	0·40	−0·10	52·4	+20·0	55	+20
	Oxford	68	23	50·9	30·3	40·1	− 5·5	25	44	3	0·24	−0·18	43·4	+10·6	46	+12
5. ENGLAND, S.	London	68	27	51·9	34·6	42·8	− 4·3	37	21	2	0·43	0·00	33·9†	+ 5·5†	36†	+ 6†
	North Foreland	48	30	44·6	37·0	40·6	− 4·4	7	18	3	0·48	?	*	*	*	*
	Strathfield Turgiss	69	24	53·0	29·9	41·0	− 4·9	31	47	3	0·21	−0·21	*	*	*	*
	Dungeness	59	25	48·7	35·6	41·8	− 3·8	19	25	3	0·52	+0·11	*	*	*	*
	Hastings (St. Leonards)	62	30	49·7	35·5	42·3	− 4·5	29	18	4	0·64	+0·16	49·0	+10·5	52	+11
	Southampton	70	31	56·2	35·5	45·4	− 1·7	51	18	1	0·14	−0·36	56·7	+19·1	60	+20
	Hurst Castle	64	28	53·0	35·9	44·0	− 2·0	40	17	1	0·07	−0·36	*	*	*	*
	Stowell	69	23	51·8	32·4	41·6	− 4·0	27	37	2	0·15	?	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	64	23	50·7	29·1	39·2	− 5·8	24	46	2	0·19	−0·77	*	*	*	*
	Glasgow	59	26	46·2	31·1	37·8	− 6·2	12	42	1	0·01	−0·51	34·3	+ 5·2	36	+ 6
	Ardrossan	64	27	49·7	32·1	40·5	− 4·5	22	37	1	0·03	−0·48	*	*	*	*
	Glenlee	67	17	49·9	24·8	36·8	− 6·3	22	62	4	0·14	−0·54	*	*	*	*
	Douglas (Isle of Man)	61	26	48·8	32·9	40·5	− 3·4	19	34	3	0·33	−0·23	65·5	+22·7	66	+24
7. ENGLAND, N.W.	Newton Reigny	66	14	48·4	25·4	36·5	− 6·4	18	60	2	0·15	−0·29	44·2	+12·0	46	+12
	Stonyhurst	61	24	47·6	29·9	38·3	− 6·2	16	43	2	0·52	−0·06	48·9	+17·8	51	+19
	Blackpool	65	26	51·3	35·4	43·1	− 0·7	35	18	2	0·25	−0·15	54·4	+21·4	57	+24
	Manchester	64	27	49·1	32·1	40·2	− 4·4	20	37	3	0·35	−0·13	*	*	*	
	Liverpool Obsy. (Bidston)	67	30	49·9	34·1	41·6	− 4·3	22	30	3	0·51	+0·13	*	*	*	*
	Llandudno															
	Holyhead	62	31	48·6	36·7	42·4	− 3·8	25	15	4	0·25	−0·20	*	*	*	*
8. ENGLAND, S.W.	Llandovery	72	21	54·1	30·3	41·6	− 3·0	34	45	3	0·31	−0·35	*	*	*	*
	Pembroke	61	31	48·9	38·4	43·4	− 2·1	25	10	4	0·18	−0·28	57·6	+15·6	61	+17
	Arlington (N. Devon)	68	26	51·6	33·7	42·2	− 2·2	36	23	3	0·76	+0·08	*	*	*	*
	Cullompton	69	21	54·5	33·2	43·3	− 2·3	46	25	1	0·03	−0·57	53·3	+19·5	56	+21
	Falmouth	59	32	49·9	38·6	44·5	− 2·5	28	7	3	0·21	−0·51	55·7	+15·9	59	+17
	Plymouth	66	27	52·9	39·4	45·8	− 2·0	38	7	2	0·25	−0·31	49·3	+10·4	52	+11
	Prawle Point	62	31	50·7	39·3	44·7	− 1·1	30	8	4	0·19	−0·29	*	*	*	*
9. IRELAND, N.	Malin Head	51	31	44·0	37·0	40·3	− 5·2	6	18	3	0·18	?	*	*	*	*
	Londonderry												*	*	*	*
	Mullaghmore	61	28	49·1	35·7	42·1	− 4·5	27	18	4	0·23	−0·26	*	*	*	*
	Belmullet	65	29	49·6	37·4	43·2	− 4·4	28	13	4	0·39	?	*	*	*	*
	Markree Castle	68	18	52·7	26·7	39·1	− 5·9	30	57	4	0·21	−0·37	63·0	+29·0	66	+31
	Brookeborough	69	18	53·5	28·0	40·1	− 4·2	32	53	0	—	−0·60	*	*	*	*
	Armagh	65	22	51·2	28·9	39·5	− 5·1	26	48	2	0·01	−0·49	56·7	+25·7	59	+27
	Donaghadee	61	31	49·6	37·9	43·5	− 1·4	28	11	2	0·08	−0·37	*	*	*	*
	Edgeworthstown	?65	23	?53·7	30·6	? 41·7	?− 2·6	? 33	? 45	3	0·04	−0·50	*	*	*	*
10. IRELAND, S.	Dublin	57	27	48·1	34·2	40·8	− 5·8	17	29	3	0·28	−0·20	60·8	+23·7	64	+25
	Parsonstown	68	21	53·3	29·7	40·9	− 4·5	32	47	1	0·06	−0·42	55·9	+19·8	59	+21
	Kilkenny	67	24	53·1	32·1	42·1	− 3·0	42	28	2	0·09	−0·41	*	*	*	*
	Waterford	65	26	52·9	33·6	42·8	− 4·0	41	24	3	0·05	−0·56	*	*	*	*
	Roche's Point	60	31	50·9	38·7	44·5	− 2·8	31	9	1	0·02	−0·74	*	*	*	*
	Valencia	70	30	54·0	37·7	45·5	− 2·3	43	12	3	0·16	−0·72	76·1	+36·8	80	+39
	Killarney	70	25	57·4	35·1	45·7	− 1·4	55	19	3	0·25	?	*	*	*	*
	Foynes	69	28	55·1	33·1	43·6	− 3·0	49	25	2	0·17	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	55	35	49·9	41·4	45·5	− 2·4	27	2	4	0·42	−0·11	*	*	*	*
	Jersey	72	32	53·6	41·3	47·2	− 1·1	39	2	3	0·95	+0·47	48·8	+ 5·3	52	+ 6

Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked 𝔖 with the Scottish Meteorological Society.

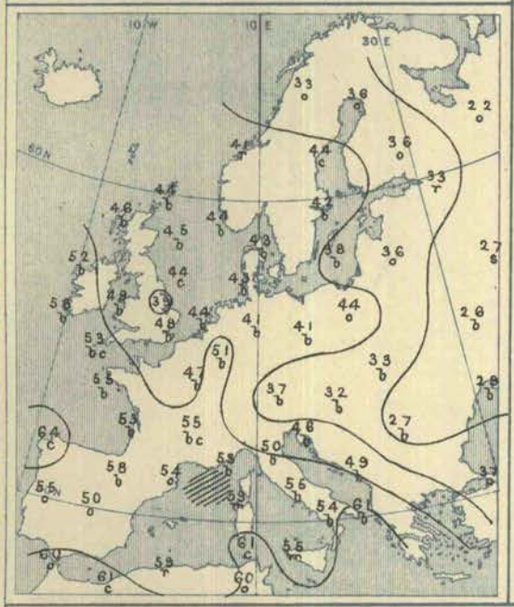
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory and the Meteorological Office Victoria Street. For additional Reports of Sunshine see last page.

Sunday, 10th April.

Temperature and Weather.

8 a.m.

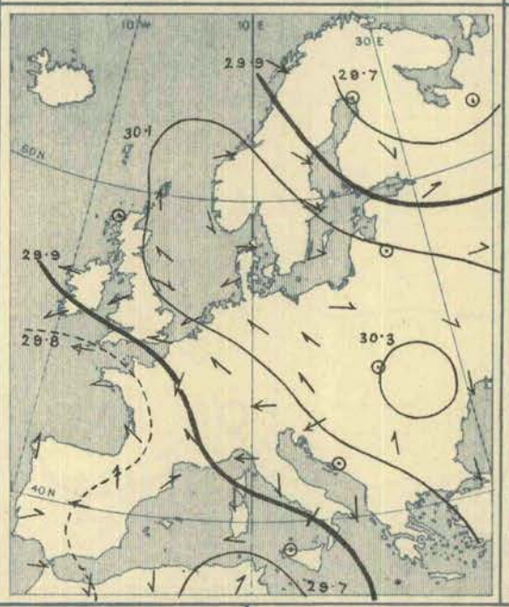


Weather fine over the greater part of our Islands and the Continent, but dull in the north of Scandinavia and in Russia; snow at Moscow, rain at Christiansund and St. Petersburg. Dull also in Spain and Algeria, with rain at Nemours and Algiers. No important change occurring during day, but thunder heard at Jersey, and heavy rain falling at Lisbon, at Brindisi, and in some parts of Algeria.

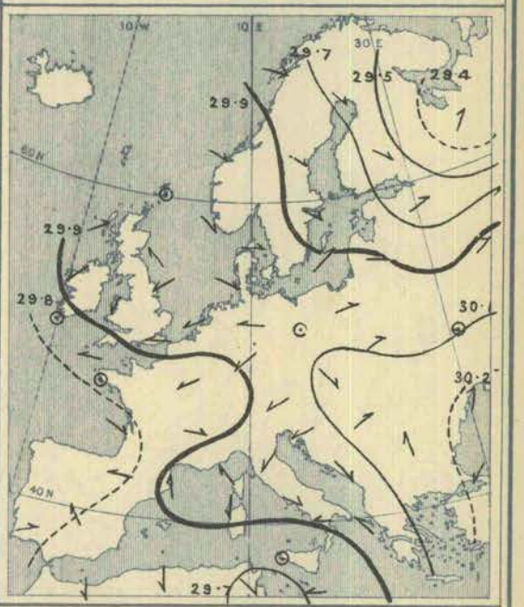
Temperature highest, 64° at Jersey and Corunna, 61° at Brindisi, Cagliari, and Oran, 60° at San Fernando and La Calle, above 55° at the Mediterranean stations as well as over the Bay of Biscay and the extreme south-west of Ireland. Lowest, 22° at Archangel, 26° at Kiev and Nicolaieff, 27° at Moscow and Hermanstadt, and 32° at Cracow and Buda-Pesth; below 40° over the whole of Russia, Austria, and south Germany, as well as at some of the Scotch stations. Rising rapidly over England and Ireland during day, and reaching 70° or more in some parts of our Islands and most parts of France and Algeria, but not touching 70° over Italy.

Barometer and Wind.

8 a.m.



6 p.m.



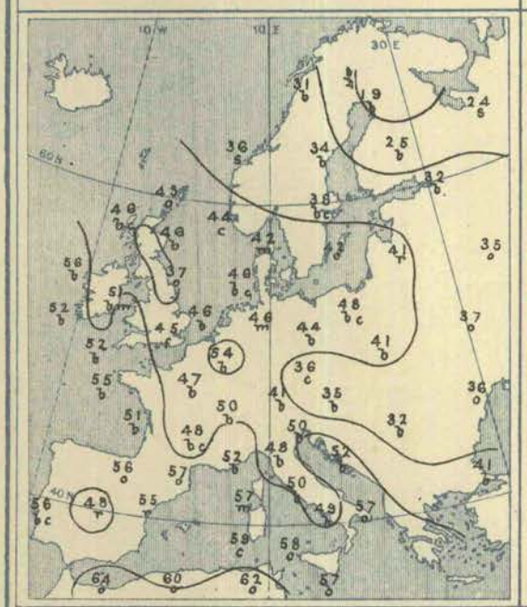
Wind light or moderate from the Eastward (South-East to North-East) over the greater part of the United Kingdom, France, and Germany; Southerly in the north of Scotland, moderate to strong from the Westward in Scandinavia, and light from the same quarter over the greater part of Russia. Northerly in Italy, variable over Austria, Spain, and Algeria. No important change occurring later.

Barometer highest, 30·3 ins. and more to 30·1 ins. in a large anticyclone extending north-westward from the southern parts of Russia across Germany and the North Sea to the south of Norway and the north and east of Scotland. Lowest, 29·7 ins. and less in a large depression lying over the north of Scandinavia, and also in another system lying over Tunis and eastern Algeria; 29·8 ins. and less in a shallow area lying over Spain and the Bay of Biscay. Decided fall of barometer taking place later in Scandinavia, and the Russian portion of the anticyclone referred to above giving way.

Monday, 11th April.

Temperature and Weather.

8 a.m.

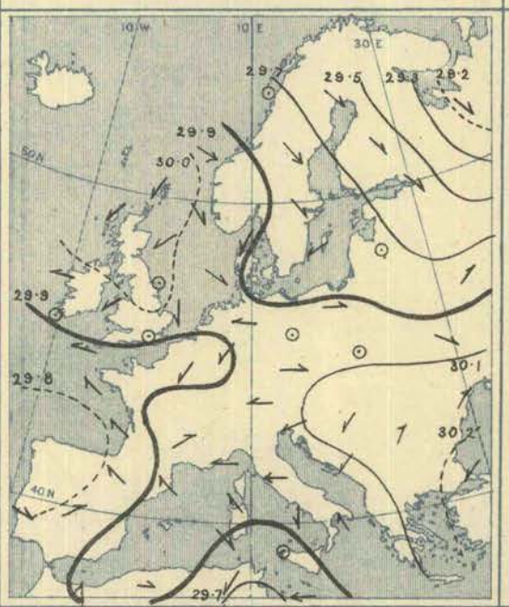


Weather in morning still fine and bright over the greater part of Ireland, England, France, Italy, Austria, and Germany; less fair than of late over northern Europe, Scotland, and the north-eastern parts of England, with snow at Christiansund and Archangel, rain at Riga. Dull and unsettled on the southern and western shores of the Mediterranean, with rain at Barcelona and Madrid. Rain later over several parts of Scandinavia, in the north-east of Spain, the south and west of France, and at Munich, but weather remaining dry and bright over Ireland and England.

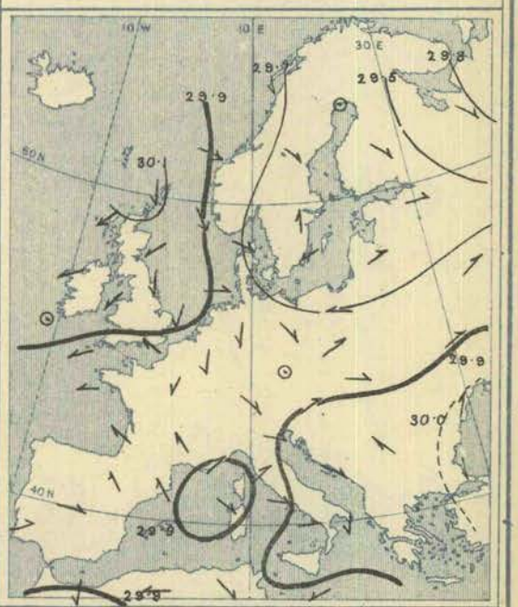
Temperature falling over England and northern Europe, risen over the central and south-eastern countries. Morning readings exceeding 60° at the Algerian stations only; exceeding 50° on the southern and western coasts of Europe and our Islands, lower elsewhere. Lowest of all, 19° at Uleaborg, 24° at Archangel and Haparanda, 25° at Kuopio, 31° at Bodö and Hangö, 36° at Loughborough, 37° at York, Shields, and Leith. Rising later to between 60° and 68° over England, and to between 70° and 77° over France and Algeria, just touching 70° in some parts of Italy, but failing to reach 50° on our north-east and east coasts.

Barometer and Wind.

8 a.m.



6 p.m.



Wind mainly North-Westerly over northern Europe and the Baltic, Northerly to Easterly over the British Islands, and Easterly to South-Easterly in the west and south of France; extremely variable elsewhere. The northern part of a cyclonic circulation observed over Tunis with Malta. Very little change worth noting later.

Barometer highest, (1) 30·2 ins. and more to 30·0 ins. over south-eastern Europe generally; (2) 30·0 ins. and more over Scotland and the northern parts of Ireland, England, and the North Sea. Lowest, (1) 29·6 ins. to 29·2 ins. and less over Lapland, the White Sea, and northern Russia; (2) 29·7 ins. and less over Tunis; (3) 29·8 ins. and less over the northern half of Spain and the southern parts of the Bay of Biscay. Falling generally at the Continental stations during the day and a shallow depression appearing over the Mediterranean.

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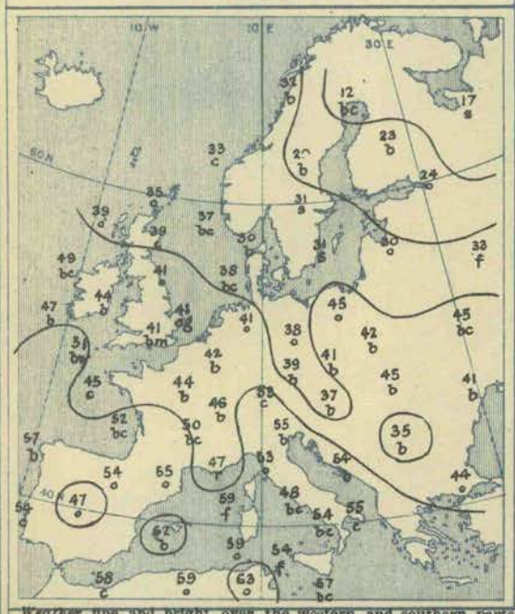
Tuesday, 12th April.

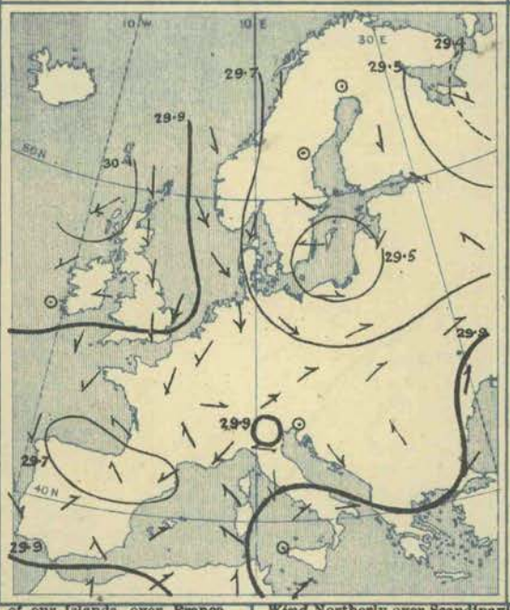
Temperature and Weather. 8 a.m.



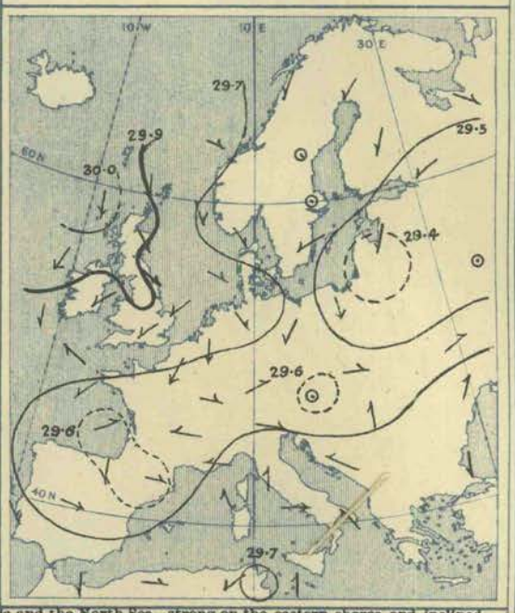
Weather fine and bright over the western and southern parts of our Islands, over France, central and south-eastern Europe, as well as over Scandinavia, unsettled over the Baltic, and becoming unsettled over the north-eastern and eastern parts of Great Britain. Rainy and unsettled also on the northern and southern shores of the Mediterranean. Sleet and hail showers later on our north and north-east coasts, and rain in the north-west. A good deal of rain in the south and south-west of France; thunderstorms occurring at several of the French stations.

Temperature rising over the southern parts of the Continent, falling in the north and north-west, including the British Islands. Morning readings exceeding 60° at some Algerian and Spanish stations, and exceeding 50° at most of the coast stations of southern and western Europe; much lower elsewhere. Lowest, (1) 12° at Haparanda, 17° at Archangel, 23° to 27° at the Finnish stations, 30° at Riga, 31° at Moscow and Wisby; (2) 35° to 39° in the north and east of Scotland, 40° at Loughborough. Not touching 50° at northern and eastern stations during day, but higher in the west, viz., 60° at Valencia. Touching 64° at Wiesbaden, 70° at Paris, and 72° at Rochefort; maxima below 70° in most parts of Spain and Italy.

Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.

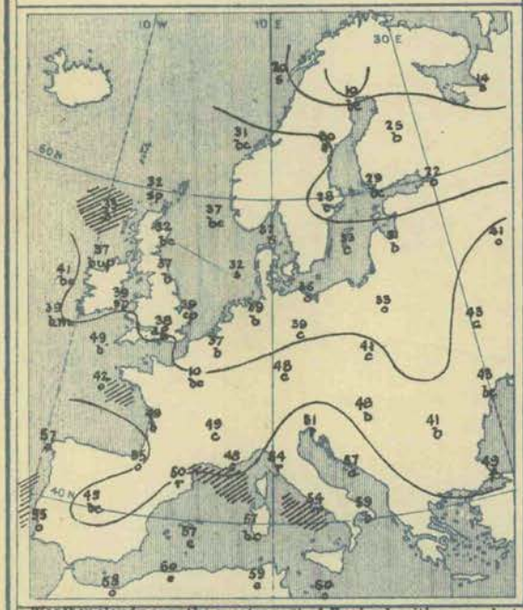


Wind Northerly over Scandinavia and the North Sea—strong on the eastern shores, and inclined to freshen on the English coasts; Easterly over the Baltic. Westerly over Germany. North-Easterly, moderate, over the Channel, the south of England, and north of France; North-Easterly to Easterly, light, over the Bay of Biscay; North-Westerly in Portugal; very variable elsewhere, but mainly North-Easterly in the south of France and Southerly over Algeria. Freshening from the Northward over the north-western parts of our Islands later and from North-West in Spain and Portugal. Southerly and South-Easterly winds setting in over Italy.

Barometer highest, (1) 30·1 ins. and more to 29·8 ins. over the British Isles and North Sea; (2) 29·9 ins. and more over southern Russia, Greece, and southern Italy, and also over Algeria and extreme south of Spain. Lowest, 29·4 ins. and less in the north-east of Russia; 29·6 ins. and less in a depression over the Baltic and the Baltic Provinces; 29·7 ins. and less in another over the north-east of Spain and the south-west of France. Falling throughout our Islands during day—most in the south-east—and also over France. Depression over Baltic Provinces moving slowly eastwards.

Wednesday, 13th April.

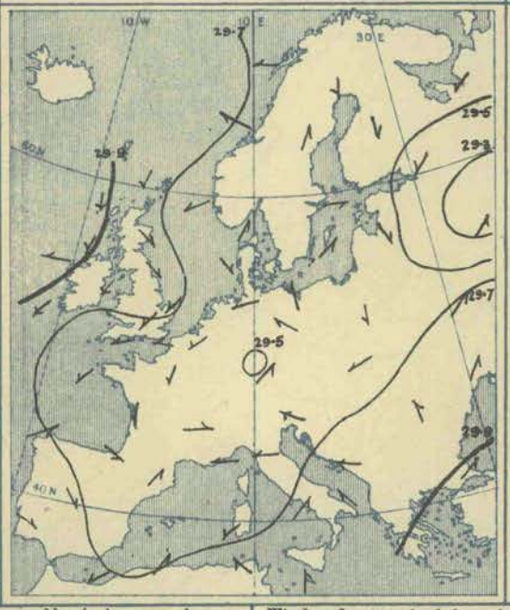
Temperature and Weather. 8 a.m.



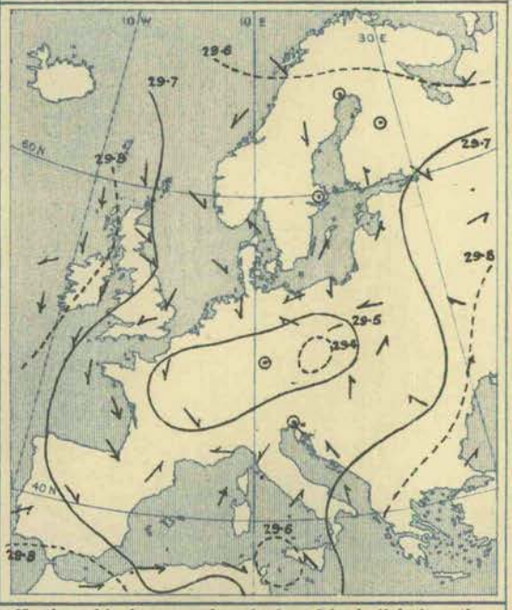
Weather cloudy over the greater part of England, with snow, sleet, or cold rain in many places; snow also falling in the Shetlands, Hebrides, and some parts of Scandinavia and northern Russia. Fine in most other parts of Europe, but rainy at several of the Italian stations. Dull in Algeria and the south of Spain. Steady rain falling in the south-east of England nearly all day, and thunder heard in London; snow showers reported at several of our northern stations. Very heavy rain in Italy (1·3 ins. at Naples and 1·4 ins. at Florence), and smaller amounts in Algeria and the extreme south of France.

Temperature highest, 61° at Barcelona, 60° at Algiers and Malta, 59° at Brindisi, Oran, La Calle, and Tunis; above 55° at most of the Adriatic and Mediterranean stations, as well as on the coasts of the Iberian Peninsula. Lowest, 10° at Haparanda, 14° at Archangel, 20° at Bodö, 21° at Ulcaborg, and 22° at St. Petersburg; below the freezing point in many parts of northern Europe, and very little above it over Scotland and the central parts of England. Daily maxima below 45° in many parts of Great Britain, and below 40° in some places. Sharp frost occurring at night at the inland stations. Thermometer exceeding 60° in France and exceeding 70° in Algeria and southern Italy.

Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Wind moderate to fresh from the Northward in the west and north of our Islands, light from the North-Eastward over England and the north of France, moderate from North-West or West over Spain and the south-west of France. Cyclonic circulation of light breezes reported over Russia. Southerly or South-Easterly winds over Italy and the Adriatic; light variable breezes over Scandinavia, Denmark, and central Europe. North-Westerly winds setting in later over the west of Norway. No important change elsewhere.

Barometer highest, 29·9 ins. and upwards in an area lying to the westward of our Islands, and also over Asia Minor. Lowest, 29·2 ins. and less in a well-marked but somewhat shallow depression lying over central Russia; 29·5 ins. and less in a smaller system lying over Bavaria. Distribution of pressure very irregular over northern and central Europe. Barometer falling slowly over western and central Europe throughout the greater part of day. Brisk rise taking place in Russia, and depression over that country entirely disappearing.

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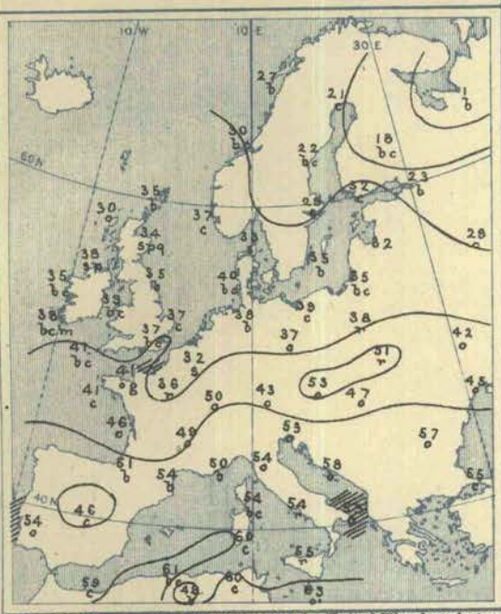
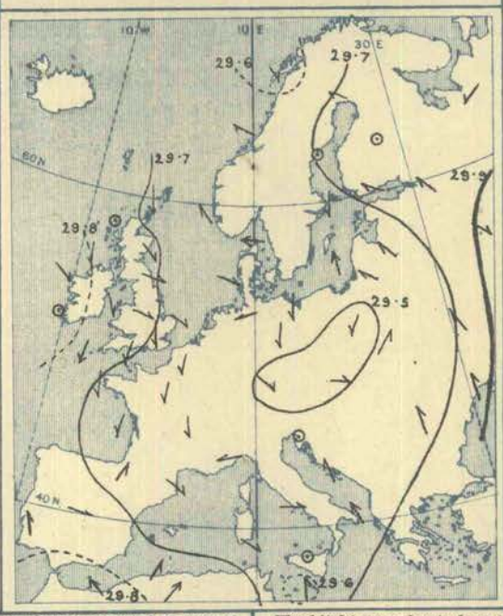
III.—SUMMARY OF WEATHER OVER EUROPE.

Thursday, 14th April.

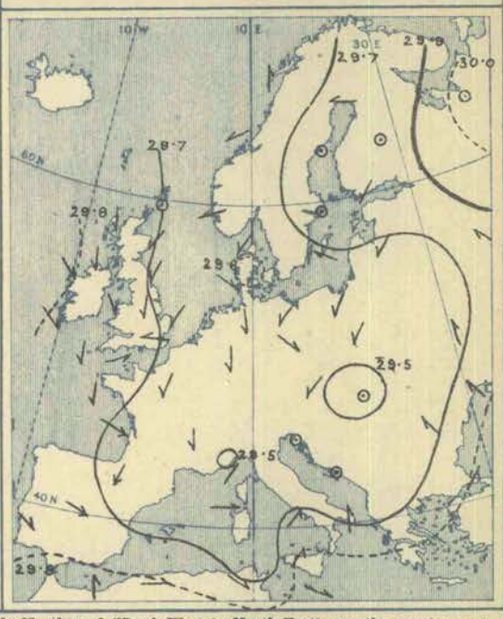
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather fine over the greater part of the United Kingdom, but snow showers reported at some of our northern and north-western stations. Fine also over Scandinavia, the Baltic, and northern and central Russia, as well as in Algeria and the south of France, but dull in most parts of central Europe and Italy, with rain in Poland and eastern Germany; rain falling also at Paris, Naples, and Palermo, and snow at Brussels. Heavy snow falling during day in Yorkshire, and smaller amounts in many other parts of the United Kingdom; a little rain in Spain, Italy, and Austria.

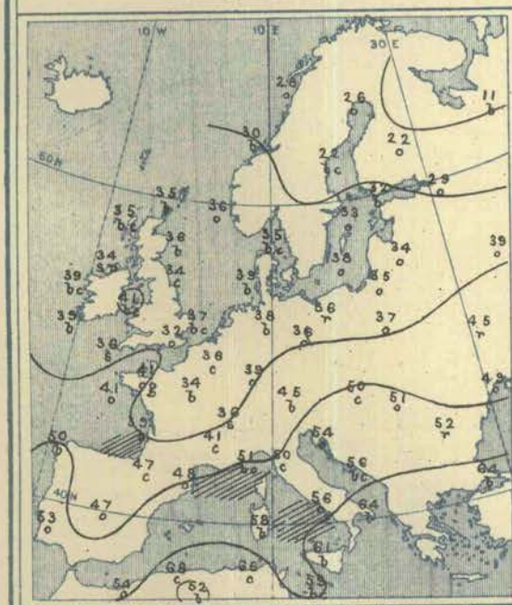
Temperature highest, 63° at Oran and Malta, 61° at Algiers, 60° at Cagliari and La Calle, and 59° at Brindisi and Barcelona; above 55° at most of the Mediterranean and Adriatic stations. Lowest, 1° at Archangel, 18° at Kuopio, 19° at Uleaborg, 21° at Haparanda, 22° at Hernösand, and 23° at St. Petersburg; below the freezing point over northern Russia generally, as well as in some parts of central England; below 40° over nearly the whole of the United Kingdom. Daily maxima below 45° in many parts of our Islands; thermometer exceeding 65° in many parts of southern Europe, and exceeding 70° in Sicily and Algeria. Sharp frost occurring over the United Kingdom at night.

Wind light or moderate from the Northward (North-West to North-East) over the greater part of our Islands, France, and Germany. Light from the South-Eastward or Southward in Russia and many parts of Scandinavia. Variable in Austria, and also in Spain and the south of France; chiefly Westerly in Italy, and Southerly (South-Westerly to South-Easterly) in Algeria. No important change occurring during day.

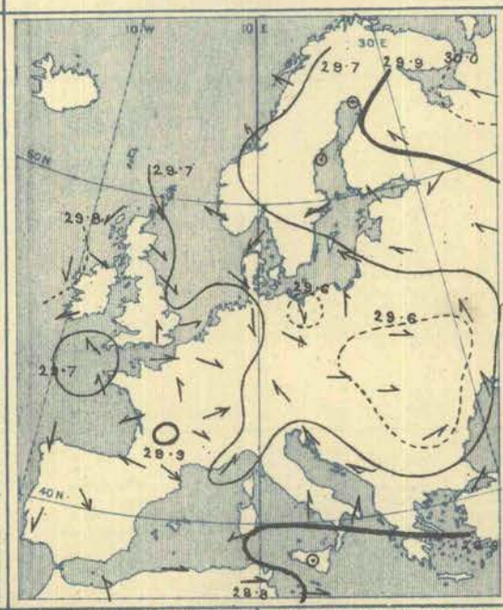
Barometer highest, 29·9 ins. and upwards over Russia and the Black Sea; 29·8 ins. and upwards over and to the westward of Ireland. Lowest, 29·5 ins. and less in an elongated depression lying over parts of Germany and Austria; 29·6 ins. and less in small systems lying respectively over the north of Norway and off the south of Italy. Depression over central Europe partially filling up during day; readings becoming very uniform over all the western and central countries.

Friday, 15th April.

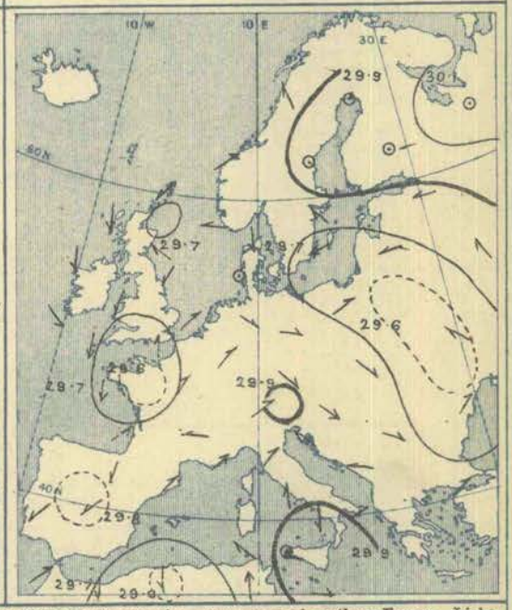
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather dull in the extreme south of England and the north-west of France, with snow at Scilly and Dungeness, dull and rainy over the greater part of eastern and central Europe, as well as in Spain and the north of Italy. Fine in all the more northern parts of the United Kingdom, as well as over Denmark, the Netherlands, the greater part of France, southern Italy, and Algeria. Much snow at night over the south-east of England, and also over the eastern and southern parts of the Channel. Small amounts at several of our northern stations, rain over the southern and central countries.

Temperature highest, 68° at Algiers, 66° at La Calle, 64° at Brindisi and Constantinople, and 61° at Palermo; above 55° at nearly all the Mediterranean and Adriatic stations. Lowest, (1) 11° at Archangel, 20° at Uleaborg, 22° at Kuopio and Hernösand, and 26° at Haparanda; (2) 28° at Oxford, and 30° at York, Loughborough, and Parsonstown; below 40° in nearly all parts of the United Kingdom. Daily maxima below 45° at many of our western, northern, and north-eastern stations, but thermometer reaching 50° in London and at Cambridge, exceeding 55° in the south of France, and reaching 61° at Nice and Lisbon; touching 70° in the south of Italy, and exceeding that value in Algeria.

Wind Easterly (South-East to North-East) over the greater part of northern Europe. Light from the Northward in the west and north of our Islands, South-Westerly or Westerly in the east of England, and South-Easterly over the western parts of the Channel and north-west of France. Variable in Spain, Southerly in Italy and Algeria, variable over central Europe. Cyclonic circulation of light breezes reported over Austria and the south of Russia. No general change later.

Barometer highest, 30·0 ins. and upwards over northern Russia, 29·9 ins. and upwards over the extreme south of Italy and the adjacent parts of the Mediterranean. Lowest, 29·6 ins. and less in a large shallow depression lying over Austria, and also in three smaller disturbances, one lying over north Germany, another over Bavaria, and a third near the mouth of the English Channel. Last mentioned disturbance subsequently advancing eastwards along the Channel and north of France, and barometer falling considerably at our south-eastern and the French stations.

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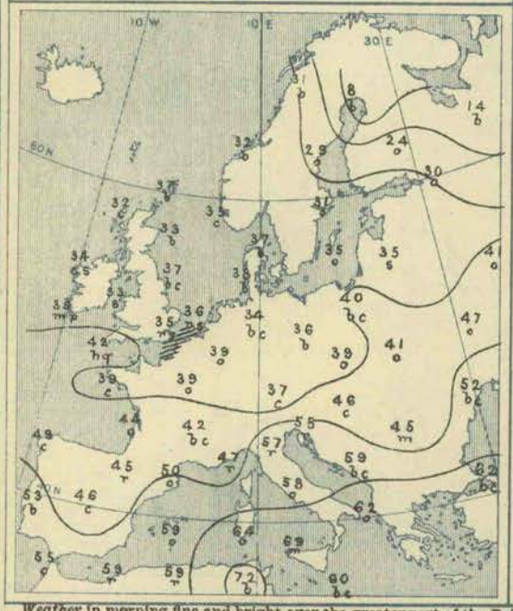
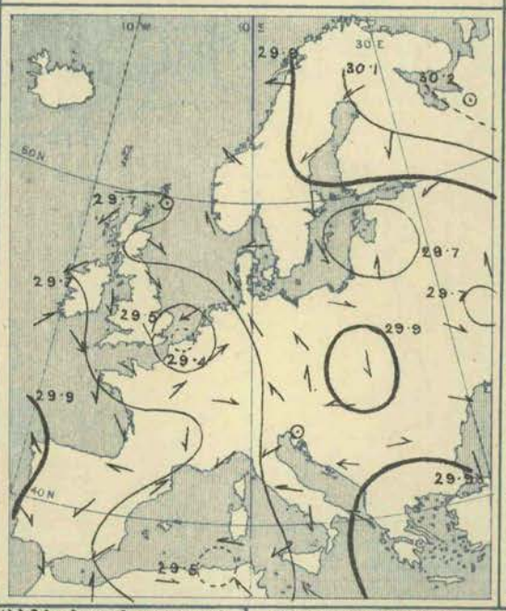
III.—SUMMARY OF WEATHER OVER EUROPE.

Saturday, 16th April.

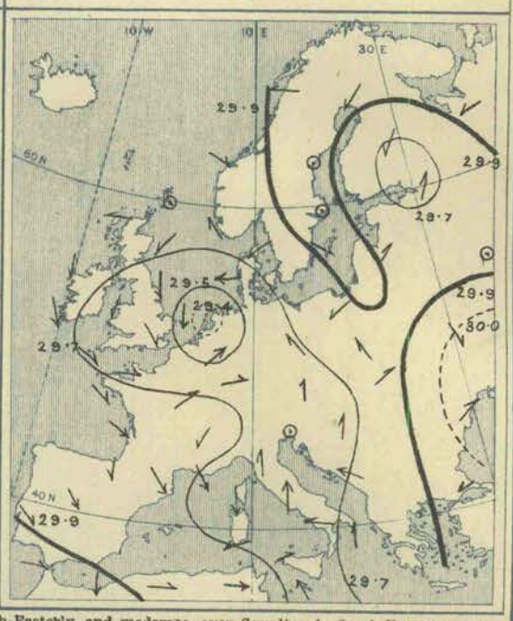
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather In morning fine and bright over the greater part of the British Islands, north-western and western Europe, but with showers of snow at some of our western stations and a very considerable fall over the south-eastern counties of England. Snow lying to the depth of 7 ins. or more in many parts of Kent, but thawing quickly. Snow and hail showers later in many parts of our Islands, thunder and lightning at Holyhead and Prawle Point, and a large fall of snow in Norfolk. Rain falling at many of the Continental stations and snow in Finland.

Temperature changing little and irregularly, rising in most places, but low generally for time of year. Morning readings exceeding 60° over the south-eastern shores of the Mediterranean only; below 40° over the greater part of the United Kingdom, Germany, and the north-east of France, and below the freezing point in many places. Lowest, 8° at Haparanda and Uleaborg, 14° at Archangel, 21° at Bodö, 30° at St. Petersburg; 30° to 33° over the northern and north-eastern parts of the British Islands, 38° in London. Rising later to between 40° and 46° over our Islands as a whole, and to between 50° and 60° over France. Exceeding 70° at many of the Italian stations, and exceeding 80° in some parts of Algeria.

Wind North-Easterly to South-Easterly, and moderate, over Scandinavia, South-Easterly over Denmark, Holstein, and Holland; Northerly to North-Easterly over the United Kingdom (strong at Yarmouth), North-Westerly over Brittany, Southerly at Paris and Brussels. Very variable and light over Russia and south-eastern Europe, Easterly over Italy, South-Easterly over Malta and Tunis. Cyclonic circulation of fresh or strong winds appearing later over Italy and the extreme south of France.

Barometer highest, (1) 30·2 ins. and more to 29·8 ins. over northern Europe; (2) 29·9 ins and more to 29·7 ins. over south-western Europe, as well as over south-eastern Europe, Austria, and Germany. Lowest, (1) 29·7 ins. and less over the Baltic and Baltic Provinces of Russia; (2) 29·4 ins. and less in a well-formed depression over the south-east of England and Belgium; (3) 29·6 ins. and less in a shallow system over the Mediterranean. The depression over Belgium and our south-eastern districts moving north-eastwards to Holland later. Low pressure system over the Baltic Provinces travelling on to Finland.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

This week has brought about a complete break-up of the very fine weather which had prevailed for about a fortnight before over the British Islands and north western Europe generally. The anticyclone noticed over the North Sea and central and south-eastern Europe on the 10th broke into two parts during the following day; one portion receded south-eastwards over Asia Minor, the other passed north-westwards across Scotland and away to the Atlantic, and complex cyclonic conditions were soon afterwards developed over Europe as a whole. Cold Northerly winds became general in our Islands, with showers of cold rain, sleet, and snow, and on the night of the 15th—16th, as a small depression moved eastwards over France and the Channel, large quantities of snow fell over the greater part of the south-eastern counties of England—the snow lying to a depth of 7 ins. and more in several places, and causing 1·2 ins. of water (when melted) at Sittingbourne.

At the close of the week the weather was still very unsettled and a good deal of snow was falling in Norfolk.

BRIGHT SUNSHINE Values for the Week in addition to those found on page 86.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	36·4	?	38	?	EASTBOURNE	50·0	?	53	?
OSWALDKIRK (Yorkshire)	46·6	?	48	?	TENBY	51·7 *	?	54 *	?
WORKSOP	34·8	+ 6·4	37	+ 7	NEWQUAY	38·1	?	40	?
THURCASTON (Leicestershire)	33·6	+ 6·9	35	+ 7	TORQUAY	50·1 *	?	53 *	?
MARGATE	34·6	?	36	?	ARLEY COTTAGE (County Cavan)	54·0	?	56	?
WESTBOURNE (Sussex)	56·0 *	?	59 *	?	GUERNSEY	50·4	?	54	?
BRIGHTON	52·3	?	55	?					

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.
By whom Subscriptions, payable in advance, can be received.
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VOL. IX. No. 16.] *Third Series.* WEEK ENDING SATURDAY, 23RD APRIL, 1892. [*Price 6d.* [*Annual subscription, post paid, £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years' observations (1871-90). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the ten years 1881-90. RAINFALL.—*The Mean amounts* are those for the corresponding periods in the twenty-five years 1866-90, but the *Mean numbers of Rainy Days* are those for the ten years 1881-90, only. BRIGHT SUNSHINE.—*The Mean values* employed are those for the corresponding periods in the ten years 1881-90.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 92.)	Observed during the Week. Highest.	Observed during the Week. Lowest.	Averages of Daily Maxima.	Averages of Daily Minima.	Averages of Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	For the Week. Difference from Mean.	For the Week. Below 42°	For the Week. Difference from Mean.	From January 3rd, 1892. Above 42°	From January 3rd, 1892. Difference from Mean.	From January 3rd, 1892. Below 42°	From January 3rd, 1892. Difference from Mean.
		°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	57	19	49·1	33·7	41·0	3 below.	20	− 4	31	+14	165	+14	695	+197
	1. SCOTLAND, EAST -	61	12	52·4	34·6	43·1	1 below.	39	+ 7	21	+ 7	212	− 9	751	+217
	2. ENGLAND, N.E. - -	64	25	51·6	36·6	43·9	1 below.	36	+ 7	15	+ 6	196	−11	651	+176
	3. ENGLAND, EAST -	70	27	54·7	35·7	44·7	1 below.	45	+ 5	18	+ 6	245	− 23	731	+197
	4. MIDLAND COUNTIES	69	20	55·2	35·1	44·7	2 below.	48	+ 7	19	+ 6	304	+12	745	+221
	5. ENGLAND, SOUTH -	69	23	53·8	37·2	45·1	2 below.	42	− 3	13	+ 6	331	−17	527	+122
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	58	18	51·1	36·3	43·3	2 below.	33	− 1	16	+ 5	221	− 7	579	+184
	7. ENGLAND, N.W. -	60	22	51·2	37·2	43·9	2 below.	33	− 5	13	+ 4	218	−11	566	+167
	8. ENGLAND, S.W. -	64	21	52·0	37·1	44·2	3 below.	36	− 6	14	+ 8	345	+13	411	+104
	9. IRELAND, NORTH -	61	20	52·2	37·1	44·2	3 below.	36	− 2	14	+ 5	280	−21	466	+120
	10. IRELAND, SOUTH -	64	22	54·8	38·6	46·3	2 below.	44	+ 1	10	+ 3	371	−23	395	+127
	— CHANNEL ISLANDS -	57	34	51·7	41·3	46·2	3 below.	32	−13	2	+ 1	385	−16	164	+ 43

Rainfall.

	DISTRICTS. (See p. 92.)	For the Week. Number of Rainy Days.	For the Week. Total Fall	For the Week. More or less than the Mean for the Week.	From January 3rd, 1892. Number of Rainy Days.	From January 3rd, 1892. Difference from Mean.	From January 3rd, 1892. Total Fall.	From January 3rd, 1892. Difference from Mean.
			10ths of In.	10ths of In.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	6	8	3 more.	74	− 3	12·4	− 3·2
	1. SCOTLAND, EAST -	3	1	4 less.	53	− 8	5·8	− 3·2
	2. ENGLAND, N.E. - -	4	1	3 less.	57	0	4·7	− 2·2
	3. ENGLAND, EAST -	3	2	2 less.	57	+ 1	4·8	− 1·9
	4. MIDLAND COUNTIES-	3	2	2 less.	50	− 4	4·8	− 2·9
	5. ENGLAND, SOUTH -	2	3	2 less.	42	−11	4·3	− 3·7
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	5	5	1 less.	56	− 9	8·7	− 7·2
	7. ENGLAND, N.W. - -	5	5	0 (average)	56	− 4	7·3	− 2·1
	8. ENGLAND S.W. - -	5	7	1 more.	55	− 6	7·3	− 4·9
	9. IRELAND, NORTH -	6	4	1 less.	59	− 9	6·8	− 3·6
	10. IRELAND, SOUTH -	4	2	4 less.	53	−10	8·1	− 4·2
	— CHANNEL ISLANDS -	4	5	1 less.	62	− 5	8·5	− 1·8

Bright Sunshine.

	DISTRICTS. (See p. 92.)	For the Week. Hours recorded.	For the Week. Difference from Mean.	For the Week. Percentage of possible Duration.	For the Week. Difference from Mean.	From January 3rd, 1892. Hours recorded.	From January 3rd, 1892. Difference from Mean.	From January 3rd, 1892. Percentage of possible Duration.	From January 3rd, 1892. Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	38	+ 6	38	+ 6	347	+ 64	30	+ 5
	1. SCOTLAND, EAST -	59	+32	59	+33	385	+ 64	33	+ 5
	2. ENGLAND, N.E. - -	44	+16	45	+17	372	+ 93	31	+ 7
	3. ENGLAND, EAST -	41	+ 2	42	+ 1	390*	+ 48	33	+ 4
	4. MIDLAND COUNTIES-	41	+ 8	41	+ 8	382	+ 82	32	+ 7
	5. ENGLAND, SOUTH -	37	+ 4	38	+ 1	424	+108	35	+ 8
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	41	+ 4	41	+ 2	374	+ 71	32	+ 6
	7. ENGLAND, N.W. - -	41	+ 7	41	+ 5	403	+110	34	+ 9
	8. ENGLAND S.W. - -	44	+ 3	45	+ 3	483	+114	40	+ 9
	9. IRELAND, NORTH -	34	+ 1	34	0	354	+ 50	30	+ 4
	10. IRELAND, SOUTH -	39	− 1	40	− 1	413	+ 48	35	+ 4
	— CHANNEL ISLANDS -	36	−11	37	−11	461	+ 25	38	+ 2

Bright Sunshine.—For several of the stations there are no "mean" values available, and the "difference from the mean" in some of the districts is consequently that of only a few of the stations.

General Remarks.

Weather continued cold and changeable, with showers of snow or sleet during the earlier part of the period, but gradually improved as the week progressed, and finally became fine, warm, and dry generally, although showers of rain were experienced in the extreme north and north-west.

Temperature was below the mean in all districts, the deficiency ranging from 1° to 3°. The highest of the maxima were recorded on the 22nd, when the thermometer rose to 70° in England E., to 69° in England S. and the Midland Counties, and to 64° in some other English districts, and in Ireland S. In Scotland N. and the Channel Islands, however, the maximum was no higher than 57°. The lowest of the minima were registered during the earlier days of the week, and ranged from 12° to 19° in Scotland, 20° to 22° in Ireland, and 20° to 27° in England. In the Channel Islands the thermometer did not fall below 34°.

Rainfall was rather more than the mean in Scotland N. and England S.W., and equal to it in England N.W. In all other districts, however, there was again a deficit.

Bright Sunshine, though very considerable, was not so prevalent generally as during the few preceding weeks; it still exceeded the mean value, however, in nearly all districts. The percentage of the possible amount of duration ranged from 39 in Scotland E., to 38 in England S. and Scotland W., 37 in the Channel Islands, and 34 in Ireland N.

Barometer and Wind.—At the commencement of the week some shallow disturbances moved southwards over the United Kingdom, and the wind was generally light or moderate from the Northward. By the 19th, however, the barometer had risen decidedly, and an anticyclone had formed over our Islands. This system subsequently moved southwards to France, and depressions appeared on our west and north-west coasts, with freshening South-Westerly to Westerly winds. On the 23rd the wind increased to a gale in the north of Scotland, which was very strong, locally, in Caithness.

* This value has been altered owing to the receipt of further information.

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II.– DATA from which the SUMMARY on page 91 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	50	29	46·9	35·3	40·8	− 1·0	14	25	6	0·71	+0·24	*	*	*	*
	Stornoway	51	26	47·4	33·7	40·2	− 3·4	15	30	7	0·44	+0·16	44·2	+ 5·9	43	+ 6
	Wick	53	23	50·1	33·7	41·5	− 1·8	23	32	6	0·56	+0·16	*	*	*	*
	Lairg ℒ	57	19	49·5	31·4	40·0	− 3·3	21	39	6	0·83	+0·31	*	*	*	*
	Glencarron ℒ	53	22	49·1	32·7	40·5	− 2·9	20	35	6	1·73	+0·75	*	*	*	*
	Fort Augustus ℒ	56	20	50·9	33·7	41·9	− 2·3	25	32	6	? 0·59	+0·11	36·4	?	36	?
	Fort William ℒ	52	22	49·8	35·5	42·3	− 3·2	29	18	6	0·90	+0·10	34·6	?	34	?
1. SCOTLAND, E.	Nairn	59	21	52·4	33·1	42·3	− 2·5	39	25	5	0·25	−0·03	*	*	*	*
	Aberdeen	59	29	52·7	35·9	43·9	− 0·4	39	17	4	0·18	−0·32	67·3	+32·9	67	+32
	Braemar ℒ	54	12	48·1	30·4	38·8	− 2·7	17	42	2	0·08	−0·47	53·2†	?†	53†	?†
	Ochtertyre ℒ	61	29	53·7	36 6	44·7	+ 0·5	42	15	2	0·02	−0·53	*	*	*	*
	Leith ℒ	61	28	55·6	36·3	45·5	0·0	48	16	2	0·14	−0·24	*	*	*	*
	Marchmont ℒ	59	27	51·9	35·4	43·3	− 0·2	37	18	1	0·08	−0·43	60·5	?	61	?
2. ENGLAND, N.E.	Alnwick Castle	56	26	50·1	38·7	44·1	+ 0·7	29	9	4	0·15	−0·39	*	*	*	*
	Durham	61	27	53·9	35·8	44·4	0·0	43	17	4	0·21	−0·28	46·5	+19·2	47	+19
	Shields	60	27	51·7	34·7	43·8	− 0·7	43	20	4	0·12	−0·30	*	*	*	*
	Scarborough ℳ	64	32	52·0	38·9	45·1	− 0·1	35	9	3	0·10	−0·36	*	*	*	*
	York	63	25	53·4	35·3	43·9	− 2·2	41	19	3	0·04	−0·38	44·5	+12·5	45	+13
	Spurn Head	55	31	48·3	36·4	42·1	− 2·9	24	16	3	0·17	−0·17	*	*	*	*
3. ENGLAND, E.	Hillington ℳ	66	27	53·2	36·6	44·5	− 2·0	40	15	2	0·08	−0·34	37·2	+ 0·2	38	+ 1
	Yarmouth	64	31	51·3	36·7	43·7	− 1·1	34	15	4	0·34	−0·07	*	*	*	*
	Geldeston	68	30	54·2	35 5	44·4	− 1·9	44	18	4	0·27	−0·09	31·6	− 8·4	32	− 9
	Cambridge	70	28	58·3	34·9	46·0	− 1·1	58	20	3	0·34	−0·06	46·6	+10·5	48	+11
	Rothamsted	67	28	56·4	34·3	45·1	− 0·8	52	20	2	0·15	−0·37	49·7	?	51	?
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	62	20	54·1	35·6	44·4	− 2·2	44	18	2	0·21	−0·17	*	*	*	*
	Loughborough	64	26	56·3	34·4	44·8	− 2·5	52	21	2	0·03	−0·41	*	*	*	*
	Stamford (Ketton Hall)	69	27	58·1	36·1	46·6	− 1·0	57	17	3	0·14	−0·32	*	*	*	*
	Cheadle ℳ	60	26	52·0	35·0	43·1	− 1·9	37	20	5	0·24	−0·26	*	*	*	*
	Churchstoke ℳ	62	20	53·8	33·1	43·0	− 1·6	44	25	3	0·23	−0·19	45·1	+11·4	46	+12
	Hereford ℳ	63	26	56·2	36·1	45·7	− 1·0	51	17	2	0·17	−0·27	*	*	*	*
	Cirencester	62	25	54·6	34·9	44·3	− 1·3	46	20	3	0·36	−0·13	48·2	+13·2	49	+13
	Oxford	65	27	56·1	35·4	45·3	− 1·7	51	18	1	0·19	−0·23	39·2	+ 4·5	40	+ 5
5. ENGLAND, S.	London	68	28	56·1	37·3	46 3	− 2·3	50	13	3	0·32	−0 12	41·4†	+10·1†	42†	+11†
	North Foreland	? 67	32	52·3	38·9	45·2	− 1·1	36	9	2	0·14	?	*	*	*	*
	Strathfield Turgiss ℳ	68	23	58·4	34·5	45·9	− 1·5	59	21	2	0·24	−0·18	*	*	*	*
	Dungeness	58	28	51·6	36·6	43·7	− 3·1	35	15	1	0·13	−0·29	*	*	*	*
	Hastings (St. Leonards)	58	30	50·2	38·1	43·9	− 4·1	30	11	3	0·30	−0·18	33·6	− 6·7	34	− 8
	Southampton	69	28	57·7	37 6	47·2	− 1·3	55	12	2	0·29	−0·21	40·4	+ 1·4	41	+ 1
	Hurst Castle	62	30	51·7	37·6	44·3	− 3·0	35	12	2	0·35	−0·07	*	*	*	*
	Stowell ℳ	60	27	52·5	36·9	44·3	− 2·3	38	14	3	0·53	?	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	55	27	50·6	35·7	42·8	− 3·2	32	18	6	1·09	+0·21	*	*	*	*
	Glasgow	56	25	51·3	36·5	43·5	− 1·8	34	15	6	0 23	−0·29	38·4	+ 6·2	38	+ 7
	Ardrossan	55	26	51·1	37·7	44·1	− 2·4	33	12	2	0·11	−0·40	*	*	*	*
	Glenlee ℒ	58	18	51·9	34·1	42·6	− 1·9	37	22	6	0·44	−0·23	*	*	*	*
	Douglas (Isle of Man)	58	29	50·7	37·4	43·7	− 1·5	31	13	5	0·54	0·00	45·5	− 0·7	44	− 1
7. ENGLAND, N.W.	Newton Reigny	58	22	52·4	34·4	43·0	− 0·8	39	21	3	0·20	−0·25	53·3	+18·3	53	+18
	Stonyhurst	55	25	49·1	34·8	41·6	− 4·0	20	28	5	0·61	+0·04	39·0	+ 4·6	39	+ 5
	Blackpool ℳ	57	31	49·8	39·4	44·4	− 0·8	28	7	5	0·66	+0·26	31·8	− 4·9	32	− 4
	Manchester	58	28	52·0	36·3	43·8	− 1·9	37	16	5	0·48	0·00	*	*	*	*
	Liverpool Obsy. (Bidston)	59	30	52·4	38·1	44·9	− 2·0	37	11	5	0·48	+0·10	*	*	*	*
	Llandudno ℳ															
	Holyhead	60	32	51·7	40·4	45·8	− 1·5	33	4	5	0·43	−0·01	*	*	*	*
8. ENGLAND, S.W.	Llandovery	64	21	55·3	31·0	42·6	− 3·1	50	31	7	0·76	+0·12	*	*	*	*
	Pembroke	52	32	47·7	39·4	43·4	− 3·3	21	7	5	0 45	0·00	40·2	− 4·8	41	− 4
	Arlington (N. Devon)	55	27	49·9	35·6	42·4	− 3·2	30	18	5	? 1·31	? +0·64	*	*	*	*
	Cullompton ℳ	62	26	54·7	36·5	45 2	− 1 6	46	15	3	0·37	+0·04	49·1	+14·1	50	+14
	Falmouth	60	32	52·7	39·8	45·6	− 2·4	34	6	3	0·42	−0·28	45·5	+ 3·5	47	+ 4
	Plymouth	60	32	52·1	39·3	45·4	− 3·9	35	8	4	0·30	−0·24	39·2	− 1·8	40	− 2
	Prawle Point	60	30	51·7	38·4	44·7	− 2·1	34	10	5	0·68	+0 23	*	*	*	*
9. IRELAND, N.	Malin Head	53	33	49·1	39·1	43·9	− 2·8	25	8	6	0·36	?	*	*	*	*
	Londonderry												*	*	*	*
	Mullaghmore	55	29	50·4	37·9	43·0	− 3·8	31	11	6	0·53	+0·05	*	*	*	*
	Belmullet	55	33	50·0	40·3	45·2	− 3·4	27	3	5	0·56	?	*	*	*	*
	Markree Castle	59	20	52·0	33·6	42·4	− 4·1	38	24	6	0·58	+0·02	35·1	− 1·9	35	− 2
	Brookeborough	59	22	53·8	34·5	43·7	− 1·7	43	21	6	0·42	−0·16	*	*	*	*
	Armagh	60	24	54·6	35·1	44·5	− 1·1	45	18	6	0·37	−0·13	37·3	+ 2·8	37	+ 3
	Donaghadee	61	37	53·6	42·0	47·5	− 1 6	3	0	6	0·19	−0·28	*	*	*	*
	Edgeworthstown	60	25	54·3	33·3	42·3	− 3·0	39	24	5	0·20	−0·32	*	*	*	*
10. IRELAND, S.	Dublin	64	28	56·1	39·3	47·3	− 0·3	48	8	4	0·16	−0 31	44·0	+ 3·8	44	+ 4
	Parsonstown	61	22	55·0	35·9	45·0	− 1·6	47	17	4	0·28	−0·20	37·7	− 0·8	38	− 2
	Kilkenny	62	23	56·1	36·6	45·9	− 0·5	50	15	4	0·11	−0·30	*	*	*	*
	Waterford	63	25	54·9	37·2	45·6	− 2·6	45	13	3	0·13	−0·45	*	*	*	*
	Roche's Point	61	32	54·7	41·6	47·8	− 0·8	42	1	3	0·22	−0·53	*	*	*	*
	Valencia	56	32	52·6	39·4	45·7	− 3·1	37	7	4	0·38	−0·51	36·6	− 5·1	37	− 5
	Killarney	61	23	56·0	36·7	45·4	− 2·9	46	15	3	0·44	?	*	*	*	*
	Foynes	60	33	53·9	41·7	47·5	− 0·3	40	1	3	0·13	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	55	36	51·4	42·7	46·8	− 2 1	34	0	3	0·15	−0·37	*	*	*	*
	Jersey	57	34	51·9	39·9	45·6	− 3·8	34	6	4	0·75	+0·27	35·4	−10·4	36	−11

Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked ℒ with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

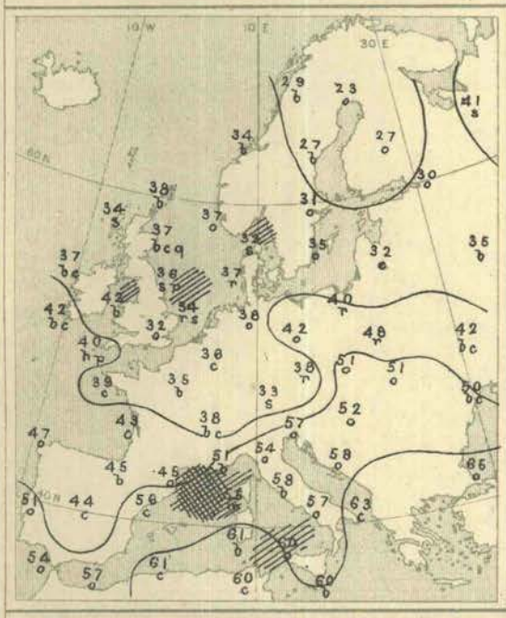
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory and the Meteorological Office Victoria Street. For additional Reports of Sunshine see last page.

III.—SUMMARY OF WEATHER OVER EUROPE.

Sunday, 17th April.

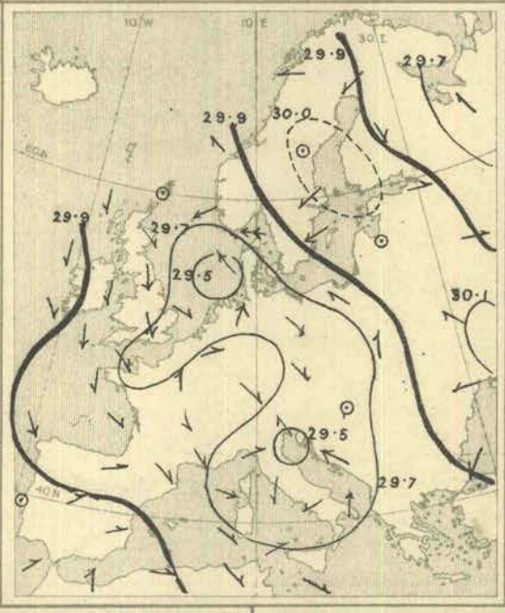
Temperature and Weather.

8 a.m.

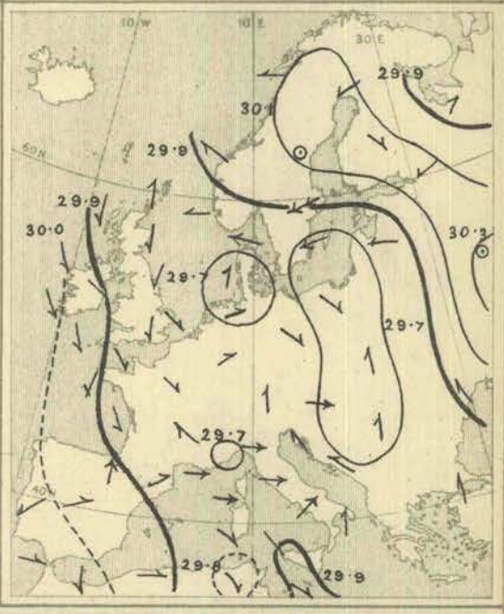


Barometer and Wind.

8 a.m.



6 p.m.



Weather fine over the greater part of western Europe, but snow and hail showers reported at one or two of our own stations. Dull over the eastern, central, and most of the southern countries, with rain in Germany, and with snow over Denmark and the Baltic. Snow showers falling during day in many parts of our Islands and France, and thunder occurring at Roche's Point and Paris. Lightning seen in the south of England at night.

Temperature highest, 65° at Constantinople, 63° at Brindisi, 61° at Cagliari and Algiers, and 60° at La Calle, Tunis, Palermo, and Malta; above 50° at most of the Mediterranean and Adriatic stations, and also on the coasts of the Spanish Peninsula. Lowest, 23° at Haparanda, 24° at Uleaborg, 27° at Kuopio and Hernösand, and 28° at Hangö; below 40° over north-western and northern Europe generally, and as low as 32° in London and 33° at Parsonstown. Daily maxima below 45° at several of our own northern and eastern stations, and below 50° over the northern parts of France. Thermometer exceeding 60° in most parts of southern Europe, and exceeding 70° over Algeria and southern Italy.

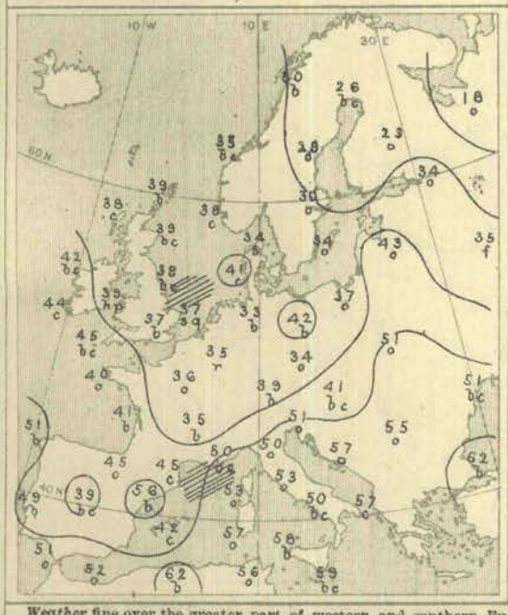
Wind light to fresh from the Northward or North-Westward over our Islands, the west and south of France, and the north of Spain; South-Westerly over Belgium and central France; Easterly over Scandinavia, Denmark, and the Baltic, with a gale at the Scaw. Cyclonic circulations of light winds reported over Germany and northern Russia. Variable breezes in Italy, Algeria, and the south of Spain. Gale from the Eastward springing up later in the south of Sweden; no important change occurring elsewhere.

Barometer highest, 30·1 ins. and upwards in an anticyclone lying over the south of Russia; 30·0 ins. and upwards over the southern parts of the Gulf of Bothnia; 29·9 ins. and upwards in the west of Ireland, and also over Spain and Algeria. Lowest, 29·5 ins. and less in a well-marked depression lying over the southern parts of the North Sea; 29·6 ins. and less in two shallow systems—one lying over eastern Germany and the other over the northern parts of Italy and the Adriatic. Depression over North Sea subsequently moving north-eastwards. German disturbance passing on to the Baltic.

Monday, 18th April.

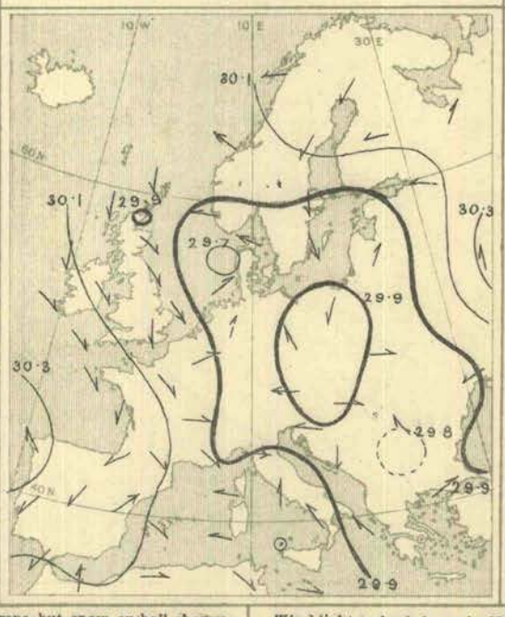
Temperature and Weather.

8 a.m.

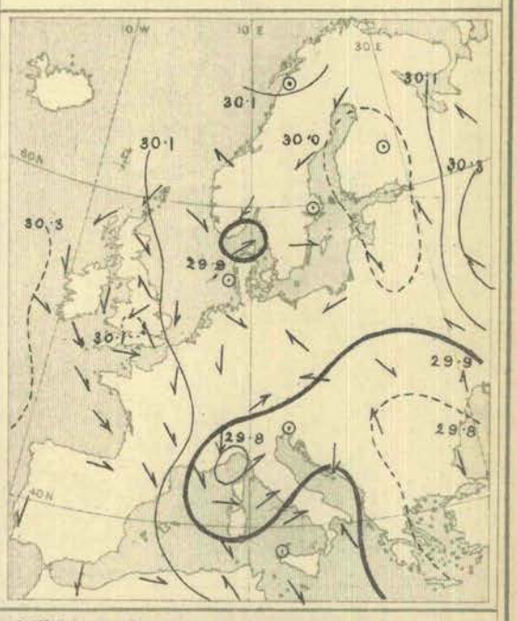


Barometer and Wind.

8 a.m.



6 p.m.



Weather fine over the greater part of western and southern Europe, but snow or hail showers reported at a few of our own stations; dull over Sweden, Russia, Austria, and the north of Italy, with fog at Moscow and rain over the Gulf of Finland. Rain, snow, or hail falling during day in many parts of Great Britain and France—somewhat heavily in places. Snow reported in Lapland and also in some parts of eastern and central Europe.

Temperature highest, 62° at Algiers and Constantinople, 59° at Malta, 58° at Palermo, and 57° at Lesina, Brindisi, and Cagliari; above 50° at most of the Mediterranean and Adriatic stations, as well as on the coasts of the Spanish Peninsula. Lowest, 18° at Archangel, 19° at Uleaborg, 23° at Kuopio, 26° at Haparanda, and 29° at Hernösand; below 40° over all the north-western, northern, and central countries of Europe, and very little above the freezing point in some parts of England. Rising during day to 50° or a little more at one or two of our western and southern stations, but remaining below 48° in some of the northern, eastern, and central districts. Exceeding 55° in the south of France, and exceeding 70° in the southern parts of Spain and Italy.

Wind light to fresh from the North-Westward or Northward over the greater part of our Islands and France, Easterly or North-Easterly over Scandinavia and northern Russia, with a gale at Helsingfors. Light or variable over central Europe, Southerly or South-Easterly in Italy, North-Easterly or Northerly in Spain. Subsequently backing to the Westward or South-Westward in the extreme south of England, and also at many of the Italian stations.

Barometer highest, 30·3 ins. and upwards in two anticyclones—one lying over central Russia and the other extending from the Atlantic over the north-west of Spain. Lowest, 29·7 ins. and less in a shallow depression lying off the west coast of Denmark, and also in another disturbance over the Baltic Provinces; 29·8 ins. and less in a very shallow system over Austria. Danish depression subsequently travelling north-eastwards, but small secondary disturbances moving southwards across Great Britain. Depression over Baltic Provinces moving north-eastwards and partially filling up.

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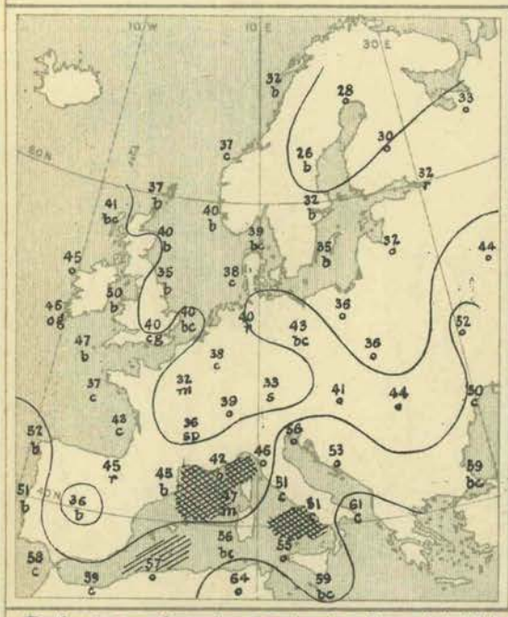
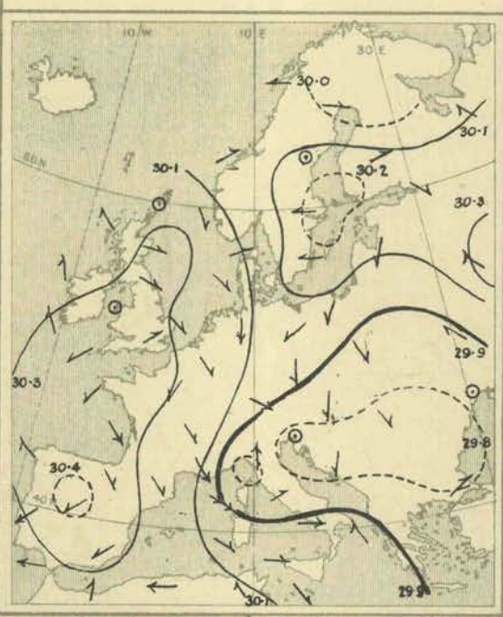
III.—SUMMARY OF WEATHER OVER EUROPE.

Tuesday, 19th April.

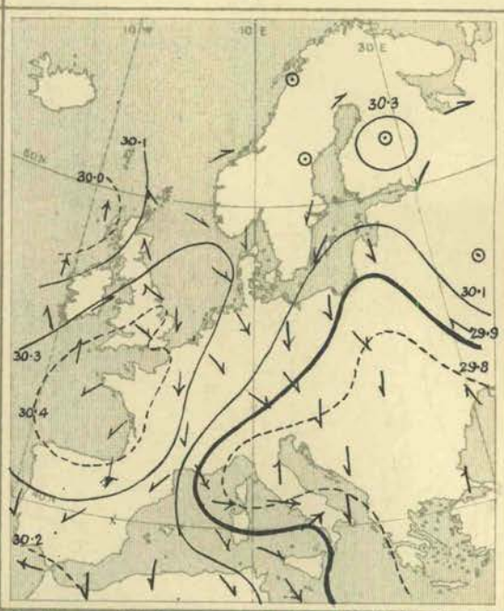
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather fine over the greater part of western Europe, but dull in the west of Ireland and hazy or foggy at some of the English stations. Cloudy or overcast in most of the eastern and central countries, as well as in Italy and Algeria; rain falling at Cuxhaven, St. Petersburg, and Cracow, and snow at Munich and Lyons. Rain setting in later at most of our own western and northern stations, but weather remaining fine in the east and south. Heavy rain falling over Austria and northern Italy, and smaller amounts at some of the Russian stations.

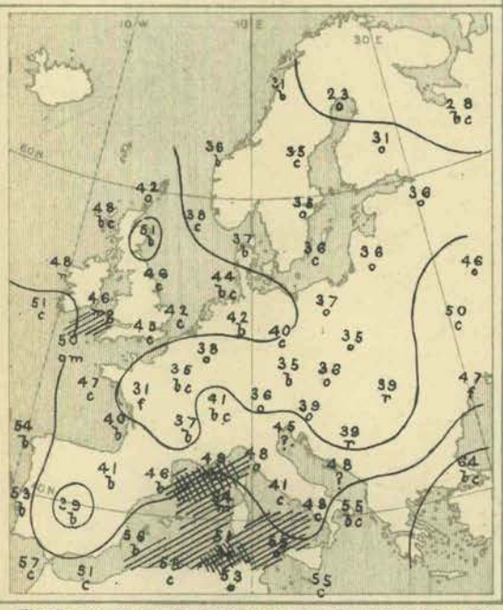
Temperature highest, 64° at La Calle, 61° at Brindisi, 59° at Nemours, Malta, and Constantinople, and 57° at Algiers; above 50° at most of the Mediterranean and Adriatic stations. Lowest, (1) 26° at Hernösand, 27° at Uleaborg, 28° at Haparanda and Hangö, and 30° at Kuopio and Helsingfors; (2) 30° at Loughborough, and 32° at Oxford, Cambridge, and Paris; below 40° over north-western and northern Europe generally, as well as over central Spain. Maxima over our Islands higher than of late, thermometer exceeding 50° in many places, and reaching 56° at Leith and Loughborough. Exceeding 55° in the south of France, and exceeding 65° in many parts of Spain and Italy.

Wind light to moderate from the South-Eastward in the extreme west of our Islands, but North-Westerly or Northerly in most other parts of western and central Europe. Variable over the northern parts of Russia and Scandinavia, light from the Eastward in the south of Russia; South-Westerly in Italy, Easterly (South-East to North-East) in Spain and Algeria. Subsequently increasing to a strong breeze from the Southward in Ireland and to a moderate gale from the same quarter in the north of Scotland. Considerable increase of wind from West and South-West taking place in Italy.

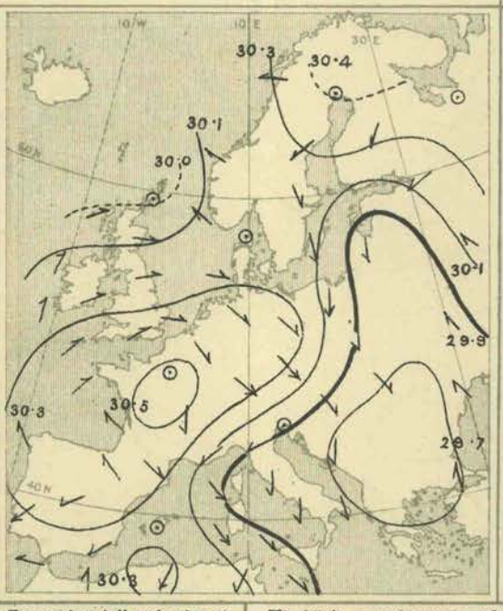
Barometer highest, 30·3 ins. to 30·4 ins. in an anticyclone covering the greater part of England, Ireland, Spain, the Bay of Biscay, and the west and north of France, as well as in another area lying over central Russia. Lowest, 29·8 ins. and less in a small depression lying over the Gulf of Genoa, and also in a large shallow area extending from the Adriatic to the Black Sea. Well-marked depression, with readings below 30·0 ins., skirting our extreme west and north-west coasts during day, and barometer falling in all the more western and northern parts of the United Kingdom. Very little change occurring elsewhere.

Wednesday, 20th April.

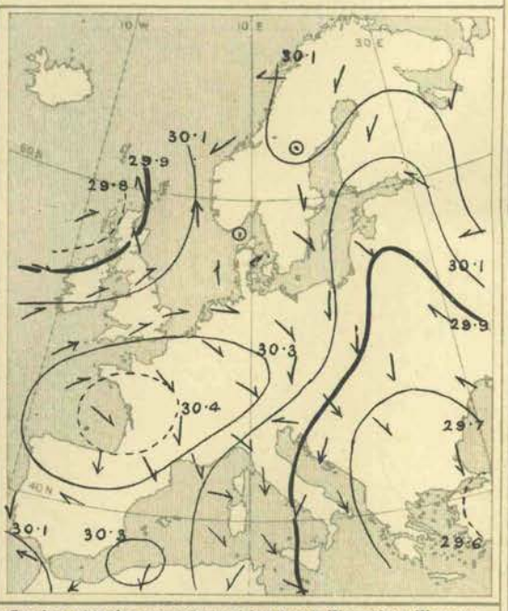
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather fair or fine over the greater part of western and southern Europe, but dull and rainy at several of our own western stations, as well as at Spurn Head. Dull also in most parts of Germany, Russia, and Austria, with rain at Helsingfors, Lemberg, and Buda-Pesth. Rain falling later in nearly all parts of the United Kingdom, in Belgium, and the north of France; snow and rain in Austria and heavy rain at Brindisi. Aurora seen in the north of Scotland at night.

Temperature highest, 64° at Constantinople, 58° at Oporto, 57° at San Fernando, and 56° at Barcelona, Palma, and Nemours; above 50° at most of the Mediterranean stations, as well as on the coasts of Spain, the extreme south-west of our Islands, and the east coast of Scotland. Lowest, 23° at Uleaborg, 28° at Archangel, 30° at Haparanda, and 31° at Bodö, Kuopio, and Hangö; below 40° in most parts of northern and central Europe, and as low as 31° at Le Mans and 32° at Limoges. Daily maxima over our Islands considerably higher than of late, thermometer exceeding 50° in most places, and reaching 61° at Leith and Parsonstown. Much above 60° in Italy and Algeria, and exceeding 70° in some parts of Spain.

Wind light or moderate from the Southward in the west of Ireland, but South-Westerly or Westerly in all other parts of the United Kingdom; South-Easterly in the west of Norway. Light from the South-Eastward, and also over central Russia, but North-Easterly in Finland, and Northerly or North-Westerly over the Baltic, Germany, Austria, Italy, and the central parts of the Mediterranean. Moderate from the North-Eastward in Algeria and from the Eastward in Spain; light from the South-Eastward in the west of France. Subsequently veering to the South-Westward or Westward in the extreme west of our Islands; no important change occurring elsewhere.

Barometer highest, 30·3 ins. to 30·5 ins. and more in a large anticyclone lying over the Bay of Biscay, France, Spain, and the Netherlands, as well as in another system lying over the northern parts of Russia and Scandinavia. Lowest, 29·7 ins. and less in a large depression lying over south-eastern Europe, and having a well-marked secondary off the coast of Corsica; 30·0 ins. and less in a shallow disturbance lying off the north of Scotland. New depression approaching our extreme north-west coasts later, and that over south-eastern Europe undergoing great modification.

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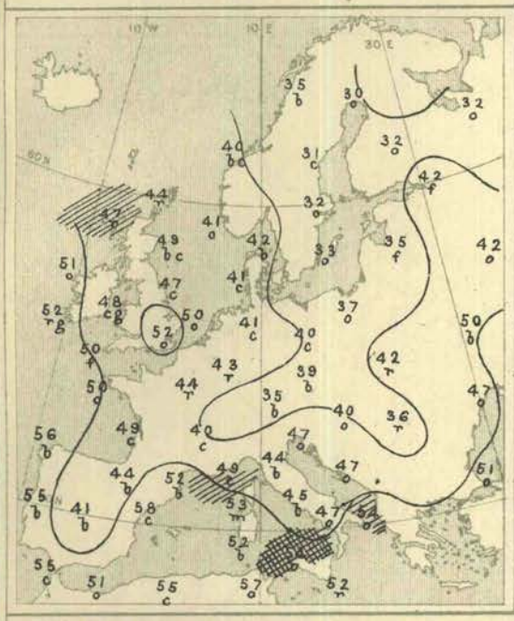
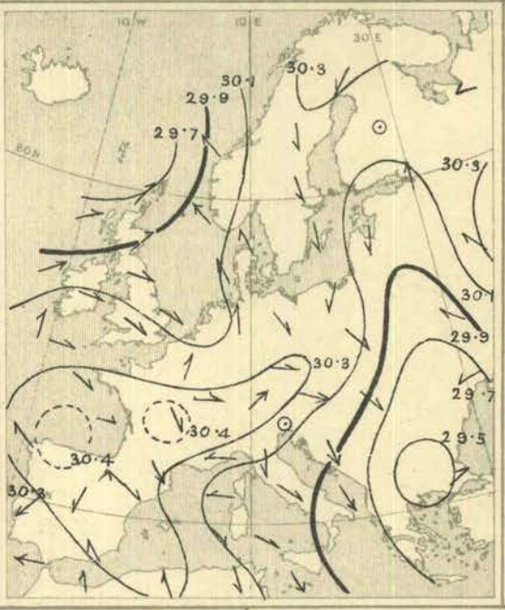
III.—SUMMARY OF WEATHER OVER EUROPE.

Thursday, 21st April.

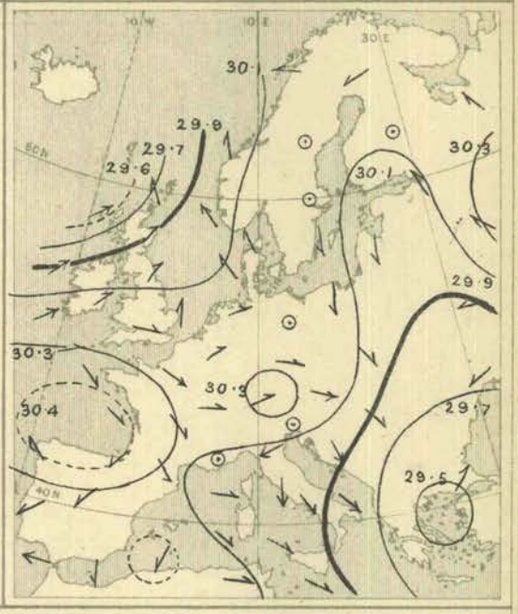
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over south-western and southern Europe, dull over Russia, and foggy in places; cloudy and unsettled elsewhere, with rain in many localities, snow at Cracow. Some rain later over the western and northern parts of our Islands, but weather fine over the greater part of France and the south-east of England. Snow falling in Lapland, and also in some parts of north Germany.

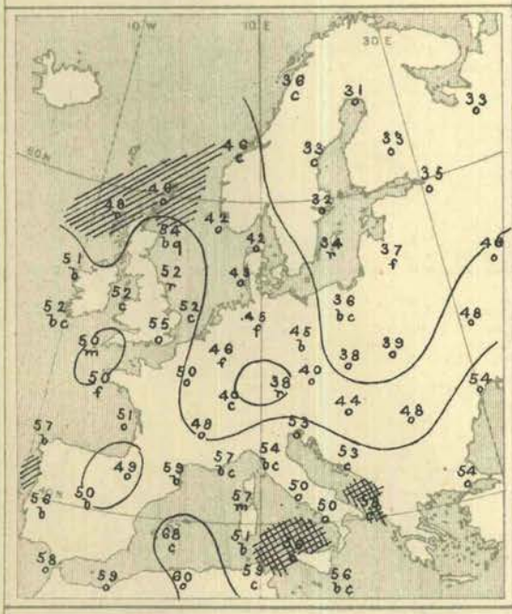
Temperature increasing over western and north-western Europe, decreasing in the south-east. Morning readings below 60° everywhere, but exceeding 50° on the southern and western sides of the Mediterranean, and on the Atlantic coasts of the Peninsula, France, and the British Isles; above 40° over north-western Europe generally, but as low as 30° to 32° over the greater part of northern Europe and at several of the Baltic stations. Rising to between 60° and 65° later over the greater part of England and the south-west and south of France, but remaining below the latter point in many parts of Italy and Algeria. Exceeding 70° at several of the Spanish stations.

Wind varying greatly: (1) South-Westerly to Westerly in our Islands, Southerly and South-Easterly on the eastern shores of the North Sea, Easterly to North-Easterly in Lapland; (2) Northerly over the Baltic and Finland, North-Westerly over Germany, Austria, and the Adriatic, South-Westerly at Constantinople, Easterly over southern Russia; (3) Easterly on the Portuguese coast, South-Easterly in Algeria. No important change occurring during day.

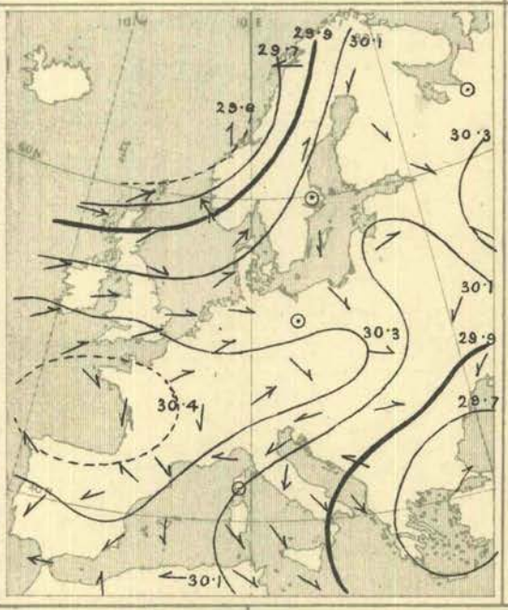
Barometer highest, 30·4 ins. and more to 30·3 ins. over Spain, France, and south Germany; 30·3 ins. and more over central Russia and in Lapland, and exceeding 30·2 ins. over Sweden and north Germany. Lowest, about 29·5 ins. in a depression lying over south-eastern Europe and Asia Minor; about 29·7 ins. in another disturbance off the north of Scotland; rising later over Ireland, England, and France, but falling in the north-west of Scotland. Depression off the north of Scotland advancing eastwards; low-pressure system over south-eastern Europe moving slowly northwards.

Friday, 22nd April.

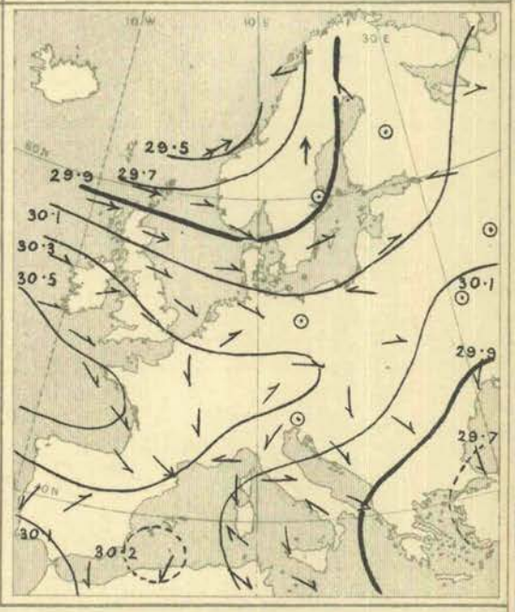
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather fair over the greater part of western, central, and southern Europe, but foggy over the Bristol and the western parts of the English Channels, as well as at Cuxhaven. Dull at most of the Swedish, Russian, and Austrian stations, with rain at Hangö and Wisby. Slight rain falling later in the extreme north and north-west of our Islands, as well as on the eastern shores of the North Sea; no important change elsewhere.

Temperature highest, 68° at Palma, 63° at Barcelona, 60° at Algiers, and 59° at Bilbao, Oran, and La Calle; above 50° over the greater part of western and southern Europe, and as high as 55° at York, Roche's Point, and in London. Lowest, 29° at Hangö, 31° at Haparanda, Ulcaborg, and Helsingfors, 32° at Stockholm, 33° at Archangel and Kuopio; below 40° in many parts of Sweden, Russia, and Germany. Rising during day to 65° or more at several of the English stations, and reaching 70° at Cambridge. Exceeding 70° in Spain, Portugal, and the extreme south of France, and rising to 77° at Lisbon.

Wind Westerly over the United Kingdom, moderate in force generally, but strong in the north of Scotland; South-Westerly in Denmark, and South-Easterly in the west of Norway, with a gale at Skudesnaes. Chiefly North-Westerly or Northerly in France and Italy, and Easterly in Spain. Light and variable over central Europe and the northern parts of Russia and Scandinavia; Easterly or North-Easterly in the south of Russia. No very decided change later, but Westerly wind increasing to a gale in Caithness.

Barometer highest, 30·4 ins. and upwards in an anticyclone lying over France and the Bay of Biscay; 30·3 ins. and upwards in another system lying over central Russia. Lowest, 29·6 ins. and less in a large depression lying to the north of our Islands, and also in an equally large, but shallower, disturbance lying over the Black Sea and Asia Minor. Depression in north subsequently travelling north-eastwards, and barometer rising over the United Kingdom. Anticyclone over Russia giving way gradually.

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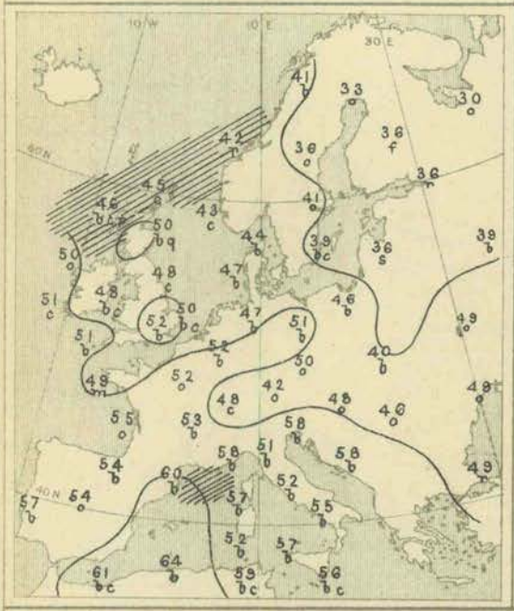
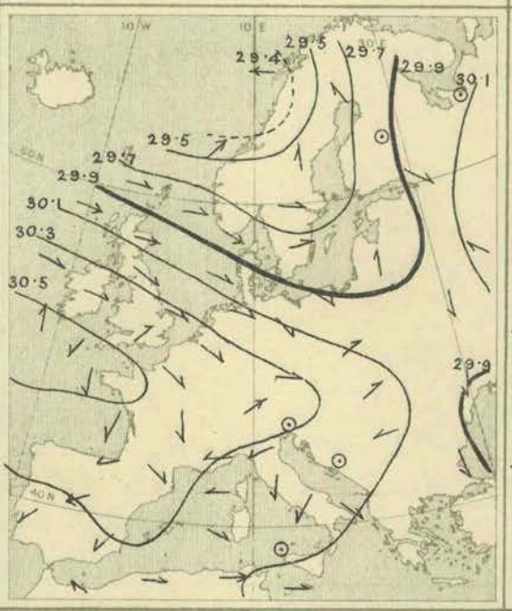
III.—SUMMARY OF WEATHER OVER EUROPE.

Saturday, 23rd April.

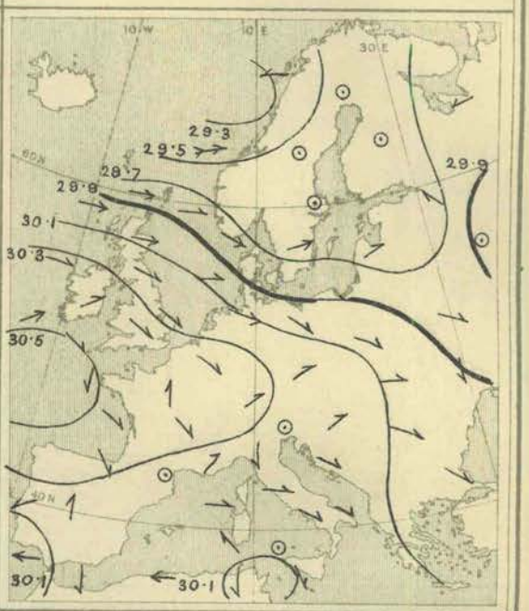
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather fine over the greater part of western and southern Europe, but cloudy and showery in the extreme north and north-west of our Islands, and also in the west of Norway. Dull over Sweden, Russia, Austria, and eastern Germany, with rain in many places, and with snow at Riga and Helsingfors. A little rain falling later in the west of our Islands; no important change occurring elsewhere.

Temperature highest, 66° at Barcelona, 64° at Algiers, 63° at Brindisi, 61° at Oran, and 60° at Bilbao, Perpignan, and Toulon; above 55° at most of the Adriatic and Mediterranean stations, and above 50° in various isolated parts of the United Kingdom. Lowest, 30° at Archangel, 33° at Haparanda, Hangö, and Helsingfors, and 34° at Uleaborg; below 40° over the northern parts of Russia and Sweden generally. Rising during day to between 60° and 66° at several of the English stations; exceeding 70° in Spain and the south of France and reaching 77° at Lisbon.

Wind Westerly over the United Kingdom, the North Sea, Denmark, Germany, and the Baltic; light or moderate in force generally, but strong in the north of Scotland and the west of Norway, with a gale at Wick. Light from the Eastward or South-Eastward over the north of Sweden and the greater part of Russia. North-Westerly or Northerly in France, North-Easterly in Spain and Italy. Subsequently increasing to a gale from the Westward in the west of Norway, shifting to the Northward or North-Westward in Italy.

Barometer highest, 30·5 ins. and upwards over the extreme south-west of our Islands and the north-west of France; 30·1 ins. and upwards over Russia. Lowest, 29·4 ins. and less in a well-marked depression lying off the west of Norway. Fall of barometer taking place during day in most parts of Europe, and high-pressure system over Russia beginning to give way.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

The distribution of barometrical pressure over Europe was somewhat irregular. At the commencement of the week two anticyclonic systems were in existence—one over central Russia and the other to the westward of our Islands. Shallow depressions were at the same time observed over various parts of central and southern Europe, so that while Northerly or North-Westerly winds prevailed over the more western countries and South-Easterly winds in the east, variable breezes were reported in the central regions, with unsettled weather over a considerable portion of the Continent.

On the 19th the Russian anticyclone gave way, while the Atlantic high-pressure system spread eastwards, the latter eventually extending over all the south-western and central countries. The depressions which had hitherto existed travelled away in a south-easterly direction, but a new series of disturbances of considerable size now began to skirt our own north-western and northern coasts on their way from the Atlantic to Scandinavia. The wind consequently backed to the Westward or South-Westward in all parts of north-western Europe, and although a decided improvement in the weather was experienced in the central countries, showery conditions set in in the north-west and north, with a gradual but somewhat decided rise of temperature. At the close of the week the Scandinavian depressions were beginning to extend south-eastwards towards central Europe, where the weather was again becoming changeable and unsettled.

BRIGHT SUNSHINE Values for the Week in addition to those found on page 92.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	56·4	?	56	?	EASTBOURNE	34·1	?	35	?
OSWALDKIRK (Yorkshire)	41·7	?	42	?	TENBY	48·6 *	?	50 *	?
WORKSOP	32·2	+ 1·4	33	+ 2	NEWQUAY	37·5	?	39	?
THURCASTON (Leicestershire)	38·1	+ 9·4	38	+ 9	TORQUAY	45·9 *	?	47	?
MARGATE	44·5	?	45	?	ARLEY COTTAGE (County Cavan)	30·7	?	31	?
WESTBOURNE (Sussex)	34·0 *	?	35 *	?	GUERNSEY	36·1 *	?	37 *	?
BRIGHTON	30·9	?	32	?					

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.
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VOL. IX. No. 17.] *Third Series.* WEEK ENDING SATURDAY, 30TH APRIL, 1892. [*Price 6d.* [*Annual subscription, post paid, £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years' observations (1871-90). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the ten years 1881-90. RAINFALL.—*The Mean amounts* are those for the corresponding periods in the twenty-five years 1866-90, but the *Mean numbers of Rainy Days* are those for the ten years 1881-90, only. BRIGHT SUNSHINE.—*The Mean values* employed are those for the corresponding periods in the ten years 1881-90.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

DISTRICTS. (See p. 98.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1892. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts. 0. SCOTLAND, NORTH	52	25	46·3	34·0	39·9	5 below.	12	−17	29	+16	177	+ 1	724	+211
1. SCOTLAND, EAST	58	26	49·5	34·6	41·7	3 below.	21	−16	29	+17	233	−22	780	+231
2. ENGLAND, N.E.	60	27	49·5	35·7	42·3	4 below.	29	− 6	18	+12	225	−14	669	+183
3. ENGLAND, EAST	64	27	52·3	35·4	43·5	4 below.	38	− 8	18	+10	283	−27	749	+204
4. MIDLAND COUNTIES	63	25	52·7	33·9	42·9	5 below.	40	− 7	23	+13	344	+10	763	+232
5. ENGLAND, SOUTH	66	25	53·2	37·3	44·9	4 below.	40	−12	13	+ 8	341	−21	540	+129
Principal Grazing, &c., Districts. 6. SCOTLAND, WEST	58	28	51·0	36·7	43·5	3 below.	33	− 7	15	+ 7	254	− 6	594	+190
7. ENGLAND, N.W.	54	27	49·5	37·6	43·3	4 below.	28	−14	12	+ 6	243	−18	578	+171
8. ENGLAND, S.W.	62	24	52·2	38·6	45·1	3 below.	36	−11	10	+ 6	381	+ 8	431	+109
9. IRELAND, NORTH	58	26	50·8	37·5	43·9	4 below.	32	−11	12	+ 5	312	−28	478	+125
10. IRELAND, SOUTH	58	29	52·8	33·8	45·5	3 below.	38	−10	9	+ 4	409	−33	404	+130
— CHANNEL ISLANDS	55	37	52·0	43·3	47·5	3 below.	39	−12	0	0	424	−23	164	+ 42

Rainfall.

DISTRICTS. (See p. 98.)	For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1892. Number of Rainy Days.	Difference from Mean.	Total Fall.	Difference from Mean.
		10ths of In.	10ths of In.			Ins.	Ins.
Principal Wheat-producing Districts. 0. SCOTLAND, NORTH	6	9	3 more.	80	− 1	13·3	− 2·9
1. SCOTLAND, EAST	4	6	1 more.	57	− 8	6·4	− 3·1
2. ENGLAND, N.E.	4	7	3 more.	61	− 1	5·4	− 1·9
3. ENGLAND, EAST	5	6	2 more.	62	+ 1	5·4	− 1·7
4. MIDLAND COUNTIES	3	3	1 less.	53	− 5	5·1	− 3·1
5. ENGLAND, SOUTH	5	4	1 less.	47	−10	4·7	− 3·8
Principal Grazing, &c., Districts. 6. SCOTLAND, WEST	4	6	0 (average)	60	− 9	9·3	− 7·2
7. ENGLAND, N.W.	4	6	1 more.	60	− 4	7·9	− 1·9
8. ENGLAND S.W.	4	7	1 more.	59	− 6	7·9*	− 4·9
9. IRELAND, NORTH	5	5	0 (average)	64	− 9	7·3	− 3·7
10. IRELAND, SOUTH	5	6	0 (average)	58	−10	8·7	− 4·3
— CHANNEL ISLANDS	4	5	0 (average)	66	− 6	9·0	− 1·6

Bright Sunshine.

DISTRICTS. (See p. 98.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1892. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts. 0. SCOTLAND, NORTH	35	+ 5	33	+ 4	382	+ 63	30	+ 4
1. SCOTLAND, EAST	38	+ 6	36	+ 6	423	+ 62	33	+ 4
2. ENGLAND, N.E.	44	+13	43	+15	416	+107	32	+ 8
3. ENGLAND, EAST	45	+ 4	45	+ 3	435	+ 58	34	+ 5
4. MIDLAND COUNTIES	50	+14	49	+15	432	+ 99	33	+ 7
5. ENGLAND, SOUTH	50	+12	49	+10	474	+124	36	+ 9
Principal Grazing, &c., Districts. 6. SCOTLAND, WEST	61	+21	59	+19	435	+ 98	34	+ 7
7. ENGLAND, N.W.	54	+16	52	+15	457	+131	35	+ 9
8. ENGLAND S.W.	55	+10	55	+10	538	+128	41	+ 9
9. IRELAND, NORTH	50	+15	49	+13	404	+ 65	31	+ 4
10. IRELAND, SOUTH	50	+ 8	49	+ 6	463	+ 60	36	+ 5
— CHANNEL ISLANDS	49	+ 2	50	+ 2	510	+ 30	39	+ 2

Bright Sunshine.—For several of the stations there are no "mean" values available, and the "difference from the mean" in some of the districts is consequently that of only a few of the stations.

General Remarks.

Weather during this period was cold and changeable, with frequent falls of cold rain or hail, but considerable intervals of sunshine. Thunder and lightning occurred in the east and south-east of England on the 25th, and at night a brilliant display of aurora was observed.

Temperature continued below the mean, the deficit amounting to 3° in Scotland E. and W., England S.W., Ireland S., and the Channel Islands, to 4° in most other districts, and to as much as 5° in Scotland N. and the Midland Counties. The highest of the maxima, which were recorded on the 24th, ranged from 66° in England S., and 64° in England E., to 55° in the Channel Islands, and 52° in Scotland N. The lowest of the minima were recorded on the 29th or 30th, when the thermometer fell to 24° in England S.W., and to between 25° and 27° in most other districts. In the Channel Islands, however, the minimum was no lower than 37°.

Rainfall slightly exceeded the mean in the north and east of Scotland and north-eastern and western parts of England, but elsewhere it either equalled or was a little less than the normal value.

Bright Sunshine was fairly abundant and exceeded the normal in all districts. The percentage of the possible duration ranged from 33 in Scotland N. and 36 in Scotland E., to between 45 and 50 in most other parts of the Kingdom, to 55 in England S.W., and to 59 in Scotland W.

Barometer and Wind.—During the earlier part of the week the barometer was highest in the south-west, and lowest to the north-eastward of our Islands. No definite depression appeared until the 27th, when a well-defined system moved south-eastwards from the west of Scotland to the Dutch coasts, causing fresh or strong North-Westerly to Northerly winds in all parts of our Islands. By the 29th the depression had dispersed, but another system had appeared in the south-west and was moving south-eastwards to France. This was accompanied by North-Easterly and Easterly winds in the south and south-west, but at the end of the period the barometer had risen quickly and the wind had become Westerly or North-Westerly.

* This value has been altered owing to the receipt of further information.

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II.—DATA from which the SUMMARY on page 97 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head ⚓	49	30	44·1	33·6	38·6	− 4·0	6	29	5	0·27	−0·16	*	*	*	*
	Stornoway	50	29	46·1	33·9	39·7	− 4·9	11	29	6	0·37	−0·21	44·5	+ 4·2	42	+ 4
	Wick	52	32	46·0	34·6	40·0	− 4·3	11	27	5	1·12	+0·72	*	*	*	*
	Lairg ⚓	51	25	45·3	32·7	38·7	− 5·8	9	33	7	0·80	+0·28	*	*	*	*
	Glencarron ⚓	51	25	46·0	32·8	39·1	− 5·3	11	33	7	1·84	+0·86	*	*	*	*
	Fort Augustus ⚓	52	26	48·5	34·6	41·2	− 3·8	18	28	6	0·59	+0·11	27·2	?	26	?
	Fort William ⚓	52	29	48·4	36·1	42·0	− 4·5	18	17	5	1·01	+0·21	33·1	?	32	?
1. SCOTLAND, E.	Nairn	52	31	47·0	34·4	40·4	− 5·4	14	28	6	0·67	+0·38	*	*	*	*
	Aberdeen	58	32	48·9	36·9	42·6	− 2·7	26	14	5	0·43	−0·07	43·2	+ 6·3	41	+ 6
	Braemar ⚓	49	26	44·9	32·8	38·6	− 3·9	8	32	5	0·55	+0·01	30·5 †	?†	29†	?†
	Ochtertyre ⚓	58	27	53·6	33·3	43·0	− 2·0	44	24	2	0·40	−0·15	*	*	*	*
	Leith ⚓	57	34	54·0	37·1	45·1	− 1·3	42	14	3	0·60	+0·22	*	*	*	*
	Marchmont ⚓	55	28	48·6	33·0	40·4	− 4·1	18	33	4	0·91	+0·36	47·3	?	45	?
2. ENGLAND, N.E.	Alnwick Castle	55	29	48·4	35·0	41·4	− 3·0	18	27	4	0·58	+0·04	*	*	*	*
	Durham	59	27	50·5	34·1	41·9	− 3·3	24	31	5	0·86	+0·38	47·6	+16·6	46	+17
	Shields	58	31	49·4	35·6	42·2	− 3·1	28	18	3	0·78	+0·37	*	*	*	*
	Scarborough ⚓	60	34	48·8	37·0	42·6	− 3·8	25	14	4	0·83	+0·37	*	*	*	*
	York	60	30	51·7	35·0	43·0	− 4·3	36	20	4	0·75	+0·33	44·0	+ 9·1	43	+10
	Spurn Head	53	34	47·9	37·3	42·4	− 3·8	23	13	6	0·62	+0·28	*	*	*	*
3. ENGLAND, E.	Hillington ⚓	60	28	51·7	34·2	42·5	− 5·1	36	22	4	0·98	+0·56	44·3	+ 3·8	43	+ 3
	Yarmouth	54	32	48·1	37·6	42·6	− 3·6	23	12	5	0·61	+0·21	*	*	*	*
	Geldeston	62	30	53·8	35·6	44·3	− 3·1	43	18	6	0·57	+0·21	45·1	+ 1·5	45	+ 2
	Cambridge	64	28	54·7	34·6	44·2	− 5·2	46	21	4	0·41	+0·01	42·4	+ 4·0	42	+ 4
	Rothamsted	60	27	53·4	34·9	43·7	− 3·4	42	20	5	0·41	−0·13	49·6	?	49	?
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	57	28	51·4	32·9	41·7	− 6·1	26	35	4	0·41	+0·03	*	*	*	*
	Loughborough	59	27	53·1	34·4	43·3	− 5·2	41	21	3	0·29	−0·16	*	*	*	*
	Stamford (Ketton Hall)	63	25	54·4	33·1	43·2	− 5·6	46	25	5	0·47	−0·01	*	*	*	*
	Cheadle ⚓	54	31	49·6	35·2	42·1	− 3·9	29	19	2	0·49	−0·01	*	*	*	*
	Churchstoke ⚓	57	25	51·3	31·3	40·8	− 5·0	26	40	2	0·23	−0·20	52·3	+16·2	51	+15
	Hereford ⚓	61	27	54·9	35·1	44·5	− 3·4	46	19	3	0·24	−0·21	*	*	*	*
	Cirencester	58	25	53·0	33·1	42·6	− 4·4	42	25	2	0·18	−0·32	55·1	+16·8	55	+17
	Oxford	60	30	54·0	36·1	44·6	− 3·7	43	17	4	0·33	−0·10	51·9	+14·9	51	+15
5. ENGLAND, S.	London	62	30	54·0	37·1	45·1	− 4·7	42	14	4	0·50	+0·06	42·9 †	+ 8·8 †	42 †	+ 9†
	North Foreland	57	35	50·0	39·6	44·6	− 3·1	28	7	5	0·26	?	*	*	*	*
	Strathfield Turgiss ⚓	63	27	55·7	34·8	44·8	− 3·8	50	20	5	0·37	−0·05	*	*	*	*
	Dungeness	57	28	51·9	36·4	43·8	− 4·4	36	16	4	0·37	−0·05	*	*	*	*
	Hastings (St. Leonards)	54	32	50·1	37·6	43·6	− 5·4	30	12	5	0·27	−0·21	55·7	+12·5	55	+12
	Southampton	66	32	57·5	38·0	47·2	− 2·3	54	11	5	0·31	−0·19	49·8	+ 8·2	49	+ 8
	Hurst Castle	59	34	53·9	39·4	46·3	− 2·2	41	7	6	0·25	−0·18	*	*	*	*
	Stowell ⚓	58	25	52·2	35·6	43·5	− 4·3	37	18	4	0·50	?	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	58	33	51·0	36·6	43·5	− 3·5	33	15	6	1·00	+0·14	*	*	*	*
	Glasgow	52	30	50·5	36·3	43·1	− 3·4	32	16	4	0·31	−0·22	48·9	+14·4	47	+15
	Ardrossan	55	34	51·6	38·7	44·8	− 2·8	33	9	2	0·28	−0·24	*	*	*	*
	Glenlee ⚓	55	28	51·5	35·1	42·9	− 2·7	35	19	3	0·68	+0·02	*	*	*	*
	Douglas (Isle of Man)	53	32	50·5	36·8	43·3	− 3·3	31	15	3	0·61	+0·09	72·2	+25·2	70	+24
7. ENGLAND, N.W.	Newton Reigny	53	27	49·2	34·0	41·2	− 3·5	20	30	4	0·72	+0·27	49·3	+11·9	48	+11
	Stonyhurst	50	33	47·6	35·7	41·9	− 5·1	16	21	3	0·78	+0·21	56·0	+18·8	54	+18
	Blackpool ⚓	52	31	49·1	38·4	43·5	− 3·0	26	10	4	0·51	+0·10	56·1	+16·2	55	+17
	Manchester	53	32	49·2	36·7	42·7	− 4·3	27	15	4	0·60	+0·12	*	*	*	*
	Liverpool Obsy. (Bidston)	51	35	51·0	39·3	44·9	− 3·2	32	8	3	0·49	+0·11	*	*	*	*
	Llandudno ⚓															
	Holyhead	54	38	50·7	40·7	45·5	− 2·8	30	4	3	0·41	−0·03	*	*	*	*
8. ENGLAND, S.W.	Llandovery	60	24	55·0	33·4	43·5	− 3·5	47	24	4	0·51	−0·14	*	*	*	*
	Pembroke	51	36	49·3	40·9	44·9	− 2·8	25	3	3	0·74	+0·29	57·4	+10·4	57	+11
	Arlington (N. Devon)	53	30	49·7	36·3	42·7	− 4·0	29	16	4	1·16	+0·49	*	*	*	*
	Cullompton ⚓	62	32	55·3	37·3	45·9	− 2·2	47	13	3	0·54	−0·08	50·3	+13·5	50	+13
	Falmouth	54	37	50·8	41·7	46·0	− 3·1	29	1	5	0·77	+0·07	51·4	+ 7·4	51	+ 7
	Plymouth	61	36	52·5	40·8	46·3	− 3·8	35	3	3	0·65	+0·13	53·0	+10·2	53	+10
	Prawle Point	60	35	53·1	40·1	46·3	− 1·6	38	5	4	0·55	+0·13	*	*	*	*
9. IRELAND, N.	Malin Head	51	38	47·3	39·9	43·4	− 4·4	19	6	5	0·52	?	*	*	*	*
	Londonderry	?	33	?	36·5	?	?	?	?	4	0·41	−0·09	*	*	*	*
	Mullaghmore	54	37	49·7	39·9	44·6	− 4·1	27	6	5	0·36	−0·13	*	*	*	*
	Belmullet	52	35	49·9	39·6	44·5	− 5·1	28	7	5	1·01	?	*	*	*	*
	Markree Castle	55	26	50·4	35·5	42·6	− 4·8	32	18	6	0·73	+0·20	52·6	+13·4	51	+12
	Brookeborough	57	26	51·7	33·7	42·3	− 4·1	37	23	6	0·42	−0·16	*	*	*	*
	Armagh	56	30	52·7	34·7	43·3	− 3·6	40	20	4	0·26	−0·24	53·8	+16·6	52	+16
	Donaghadee	58	39	51·9	42·7	47·1	+ 0·1	36	0	5	0·32	−0·18	*	*	*	*
	Edgeworthstown	57	28	52·5	35·0	43·3	− 3·3	39	20	5	?	?	*	*	*	*
10. IRELAND, S.	Dublin	58	34	53·4	38·6	45·6	− 3·1	39	10	4	0·60	+0·13	63·2	+20·2	62	+20
	Parsonstown	57	29	53·0	36·0	44·1	− 3·5	40	17	5	0·57	+0·08	48·9	+ 8·8	48	+ 7
	Kilkenny	57	29	53·0	36·4	44·3	− 3·3	40	16	4	0·66	+0·17	*	*	*	*
	Waterford	57	33	54·2	38·4	45·9	− 3·4	42	10	5	0·62	+0·05	*	*	*	*
	Roche's Point	54	38	52·0	41·9	46·7	− 2·9	33	0	2	0·36	−0·38	*	*	*	*
	Valencia	55	33	51·4	40·7	45·8	− 3·8	32	4	5	0·62	−0·26	38·4	− 5·5	38	− 5
	Killarney	57	29	53·6	38·0	45·4	− 3·6	41	11	7	0·69	?	*	*	*	*
	Foynes	55	33	51·9	40·6	46·0	− 2·7	34	4	5	0·64	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	54	42	51·7	44·6	48·0	− 1·8	42	0	3	0·39	−0·11	*	*	*	*
	Jersey	55	37	52·3	42·0	46·9	− 3·4	34	0	5	0·57	+0·10	50·2	+ 2·0	51	+ 2

Stations marked ⚓ are in connection with the Royal Meteorological Society, and those marked ⚓ with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

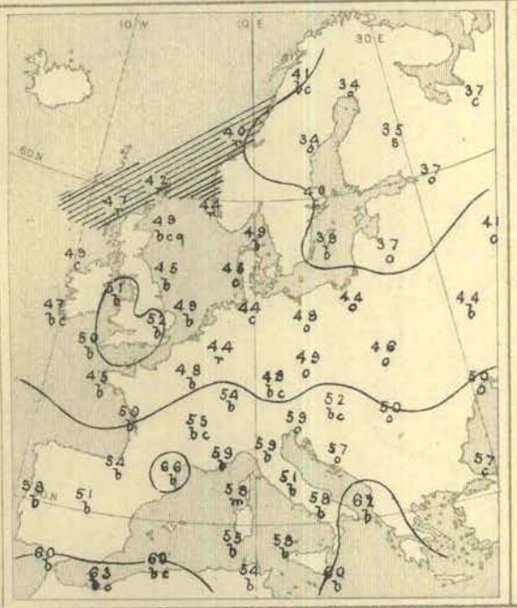
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations Stokes' or somewhat similar Bright Sunshine Recorders are in use.

For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory and the Meteorological Office, Victoria Street. For additional Reports of Sunshine see last page.

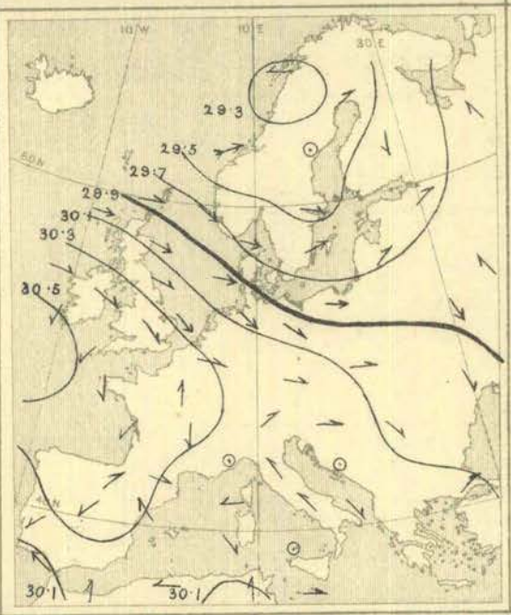
III.—SUMMARY OF WEATHER OVER EUROPE.

Sunday, 24th April.

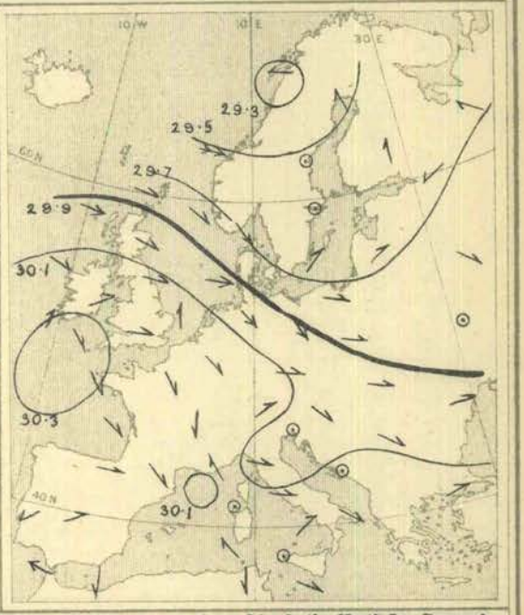
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather fine over the greater part of western and southern Europe, but rainy in the Shetlands, Hebrides, and west of Norway. Dull in most of the northern, eastern, and central countries, with fog over the Gulf of Finland, snow at Kuopio, and rain at Münster and Brussels. Rain setting in later over all the more western parts of our area; a heavy fall at Cape La Hague, and slight falls at many stations over central Europe. Solar halos seen in the south of England.

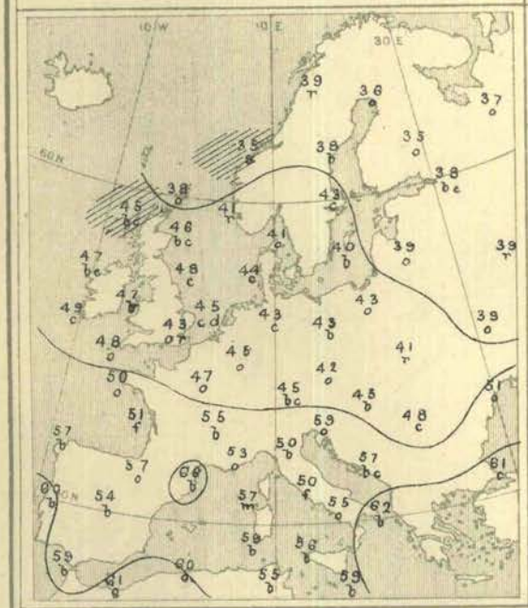
Temperature highest, 69° at Barcelona, 64° at Bilbao, 63° at Oran, 62° at Brindisi, and 60° at San Fernando and Algiers; above 55° at most of the Mediterranean stations, and also on the coasts of the Spanish Peninsula, above 50° in the south of England. Lowest, 33° at Helsingfors, 34° at Haparanda, Hernösand, and Hangö, and 35° at Kuopio; below 40° over the northern parts of Sweden and Russia generally. Rising during day to 60° or a little more at several of the English stations; exceeding 70° in many of the southern and western parts of France, in Spain, and Italy, and reaching 81° at Perpignan.

Wind Westerly or North-Westerly over the greater part of our Islands, the North Sea, Denmark and Germany; strong in force in places, with a gale at Wick. Light or moderate from the Northward in the south west of our Islands and the west of France; North-Easterly or Easterly over the Spanish Peninsula. Light from the Southward (South-West to South-East) over the northern parts of Sweden and Russia, Northerly or North-Westerly in the south of Russia, variable in Italy, chiefly Southerly in Algeria. Subsequently backing to the South-Westward in the extreme western parts of the United Kingdom.

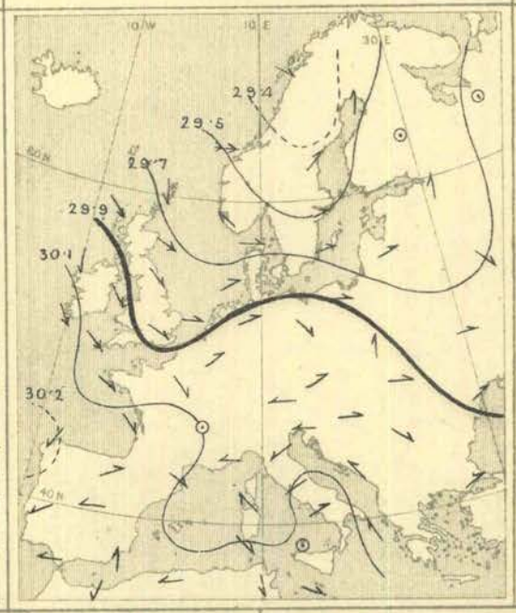
Barometer highest, 30·3 ins. to 30·5 ins. in a large anticyclone covering the greater part of England, Ireland, France, and Spain. Lowest, 29·3 ins. and less in a depression lying over the north-west of Norway; shallow secondary disturbances reported over Sweden and the northern parts of the Baltic. Barometer falling decidedly in our Islands during day, and a depression advancing over our west coasts from the Atlantic.

Monday, 25th April.

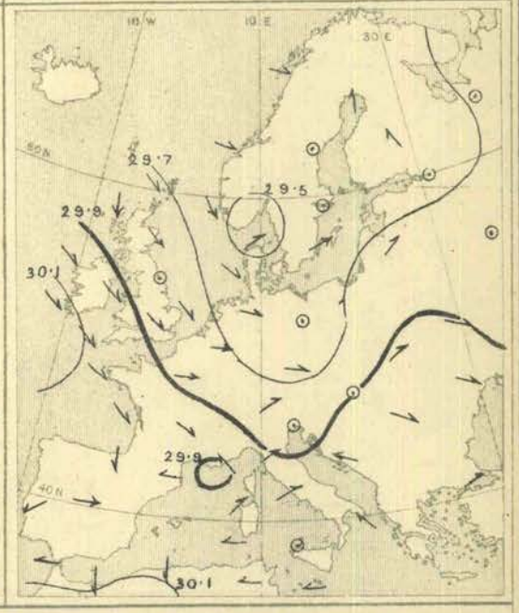
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over south-western Europe and most of the shores of the Mediterranean, as well as over Austria, south Germany, and most of the western parts of our Islands; changeable and unsettled elsewhere, with rain over the central and eastern parts of England, as well as in Norway, Hungary, and southern Russia. Rainfall very general during day over Great Britain, Norway, Denmark, Germany, and the north of France, with hail and thunder in places; an exceedingly heavy fall *reported* at Utrecht; weather finer in the west. Aurora seen over the greater part of our Islands at night.

Temperature fallen, except over the Iberian Peninsula and the Mediterranean. Morning readings exceeding 70° or more at some Spanish and Portuguese stations, 62° at Brindisi, 61° at Leghorn, lower elsewhere; below 60° over southern Europe as a whole, below 50° over the north-western, central, and south-eastern Europe, and below 40° in the north. Lowest of all, 35° to 37° over Finland. Failing to reach 60° in any part of our Islands during day, but touching 62° at Paris, 68° at Lyons and Biarritz, exceeding 70° over Italy, 77° at Lisbon, and 79° at Perpignan.

Wind North-Westerly, moderate to strong, in Scotland and Ireland, Westerly to South-Westerly, moderate, in the south and east of England, South-Westerly to Westerly over Holstein and north Germany, Westerly in Norway, Southerly over Finland and the Gulf of Bothnia. Extremely variable in direction over south-western and southern Europe, and generally light in force. Becoming North-Westerly all over our Islands later, but not increasing in strength, except in the south-eastern districts.

Barometer highest, 30·2 ins. and more to 30·0 ins. over the Spanish Peninsula, southern and central Europe, the Bay of Biscay, and Ireland. Lowest, 29·4 ins. and less to 29·6 ins. in a complex low-pressure area over Scandinavia, and below 29·9 ins. over England. Changing irregularly in our Islands later, falling decidedly over central Europe.

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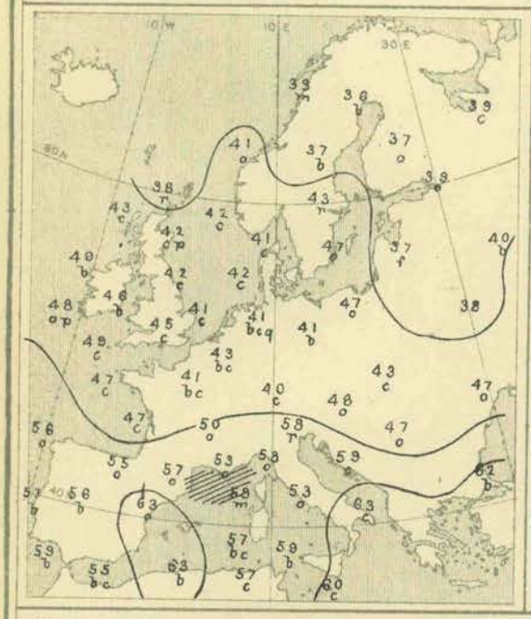
III.—SUMMARY OF WEATHER OVER EUROPE.

Tuesday, 26th April.

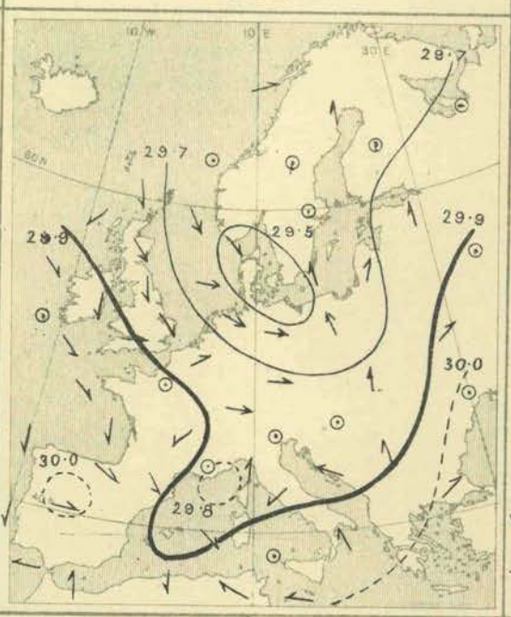
Temperature and Weather.

8 a.m.

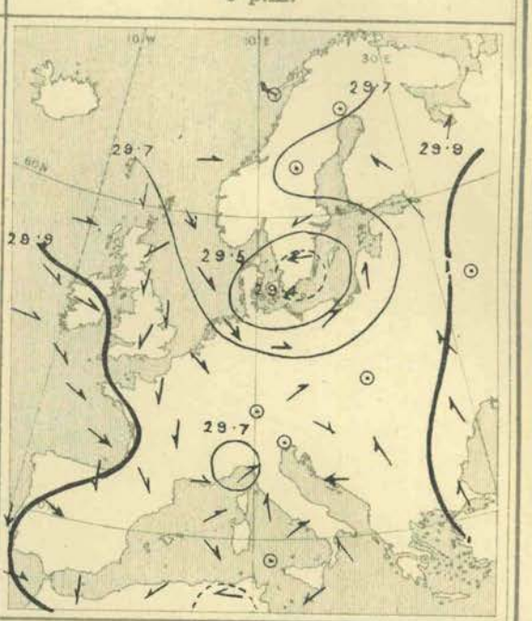


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning still fine and bright over south-western Europe and central Russia, and inclined to clear up over the greater part of the British Islands, though still showery in the east; temporarily clear over several parts of France and Germany, cloudy or overcast elsewhere, with rain locally in most of the northern and central countries. Rain or hail showers later over the eastern parts of the United Kingdom, in Germany, and the south of France, with thunder and lightning in places; weather bright in the west and north of the British Islands, and subsequently clearing in the south-east and east.

Temperature showing some further decrease over north-western and western Europe. Morning readings above 60° at only a few of the Mediterranean stations; below 50° over the greater part of the British Islands, north-western and central Europe, still lower elsewhere. Lowest, 33° at Bodö and 34° to 39° over northern Europe generally. Rising during day to between 50° and 56° over the greater part of the United Kingdom, to between 60° and 70° in the south of France and in Italy, and to a rather higher value over Algeria.

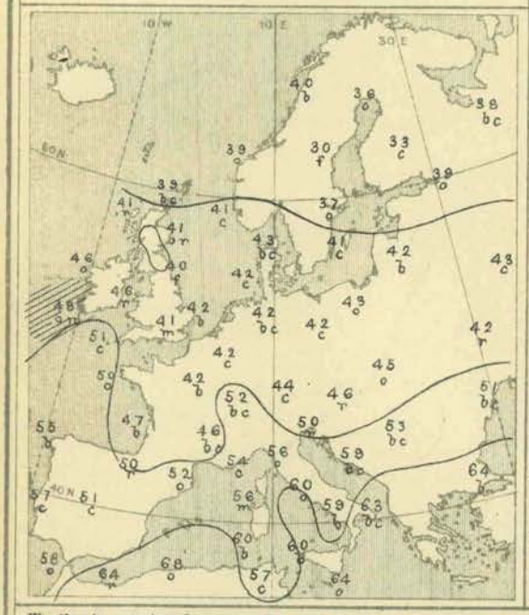
Wind light to moderate at almost all stations. Northerly and North-Westerly over the south of Norway and the United Kingdom, Westerly over the Netherlands and north-western Germany, South-South-Easterly over Hungary, Poland, the Baltic, and Finland. Very variable over south-western and southern Europe, calm over central and southern Russia. Backing Westwards on our north-western coasts later, but remaining very light in force.

Barometer highest, 30·0 ins. and more to 29·8 ins. in an anticyclone over the Atlantic, and overlapping the British Islands, France, and Spain, and in another spreading over southern Russia and the Black Sea from Asia. Lowest, 29·5 ins. and less in a large shallow depression of irregular form covering the south of Sweden, the Sound, and Pomerania; 29·8 ins. and less in another over the Gulf of Genoa and Corsica. Rising over northern Europe later, but tending to fall over the north-western parts of the British Isles.

Wednesday, 27th April.

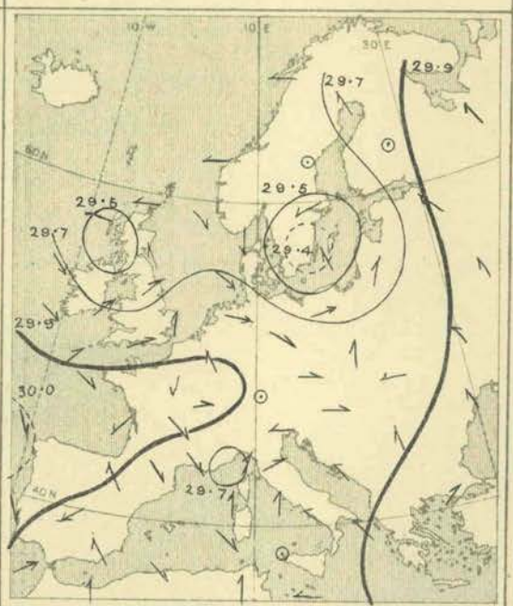
Temperature and Weather.

8 a.m.

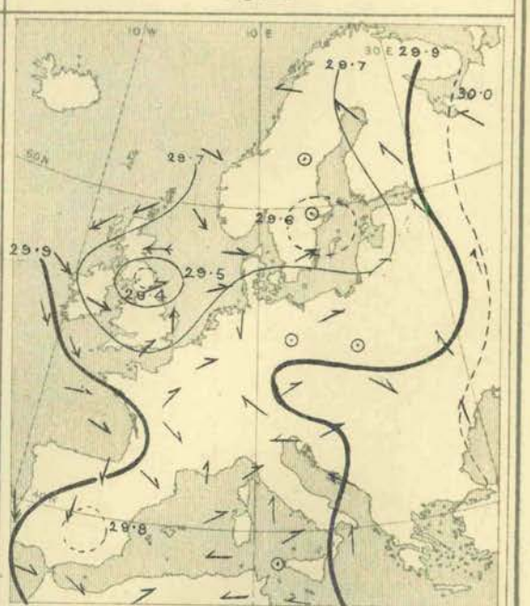


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine generally over south-eastern, southern, and south-western Europe, the greater part of France, the Netherlands, and the southern counties of England; cloudy and unsettled elsewhere, with rain in places—very unsettled over the northern half of the British Islands, with rain and snow in considerable quantity at the Scotch stations. Squalls of cold rain, hail, or snow over northern Europe later, and spreading to nearly all parts of the United Kingdom, to the Netherlands, and north and west of France, the largest amounts reported being 0·6 ins. at Shields and York. Thunderstorm at Algiers.

Temperature inclined to fall generally; morning readings exceeding 60° at several of the Mediterranean stations (68° at Algiers), but below 50° over all the countries in northern and central Europe; much below 40° over central Scotland, and as low as 30° at Hernösand, 32° at Ulcaborg, 33° at Kuopio, 35° at Bairn, 38° at Leith. Daily maxima scarcely exceeding 40° over the northern half of Scotland, but touching 57° in London and at Cambridge, 61° at Biarritz, and 64° at Lisbon. Night cold over our Islands generally.

Wind very variable; cyclonic circulations prevailing (1) over the Baltic and south of Sweden, (2) over the northern parts of the British Islands, (3) over the Gulf of Genoa and neighbouring parts of Mediterranean. Blowing a gale later from East at Aberdeen, from North or North-West on our western, and freshening considerably on the Portuguese coasts; becoming strong and squally from South-West over the south-east of England.

Barometer highest, 30·0 ins. and more to 29·9 ins. in a "ridge" stretching from the Atlantic across the Bay of Biscay and France, and exceeding 29·8 ins. in a "col" lying from west to east across Austria and south Germany; 30·1 ins. and more to 29·9 ins. in a large high-pressure area over Russia. Lowest, 29·4 ins. and less in a depression lying over Gothland and the south of Sweden, 29·5 ins. and less in another over the west of Scotland, and 29·7 ins. and less in a shallow system over the Riviera. The Scotch depression moving south-eastwards later, and barometer rising quickly at our northern and western stations, falling in the south-east. The other disturbances filling up.

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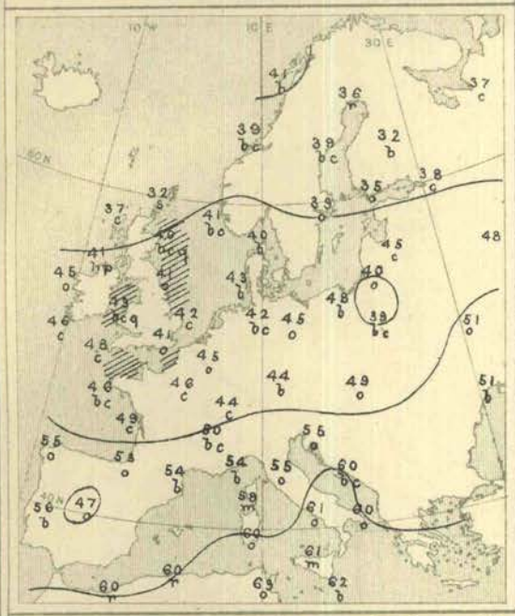
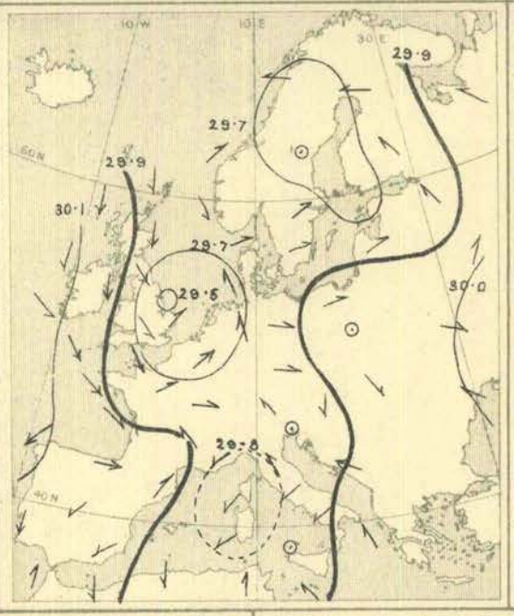
III.—SUMMARY OF WEATHER OVER EUROPE.

Thursday, 28th April.

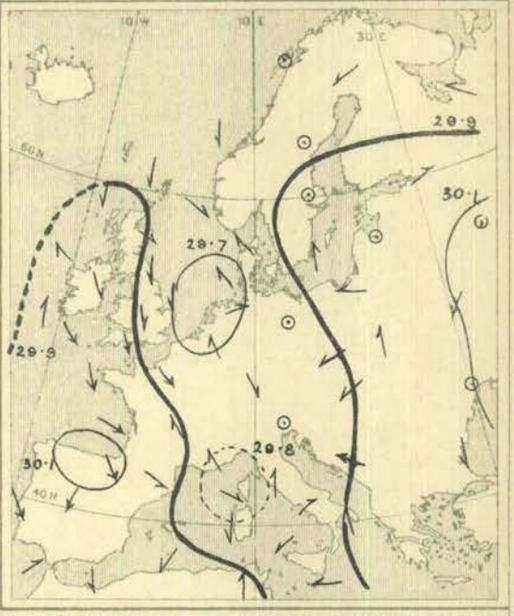
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright in Portugal, and many of the western parts of our Islands, in Norway, Denmark, and southern Russia, but not in a settled condition anywhere. Rain and snow over several parts of Great Britain, the Gulf of Bothnia, Russia, Hungary, and on some parts of the shores of the Mediterranean. Showers later (rain, sleet, or hail) in almost all parts of our Islands, Germany, France, the north of Italy, Poland, and Austria, but sky clear over Scandinavia.

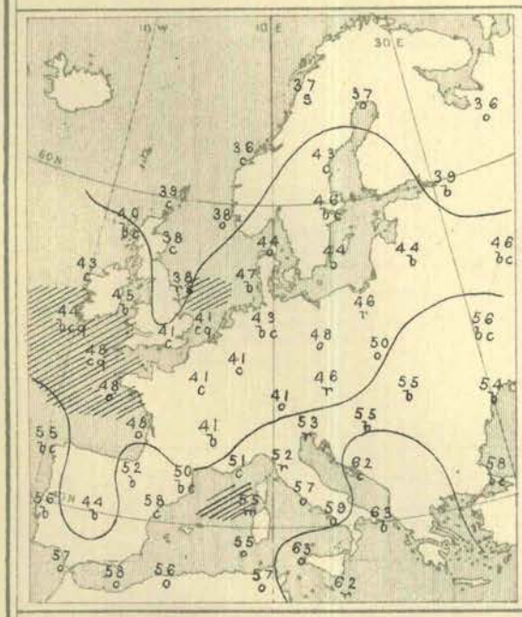
Temperature showing a still further decrease in most places. Morning readings exceeding 60° over the western, southern, and eastern sides of the Mediterranean only, but below 50° over by far the greater part of Europe, and below 40° in the north. Lowest of all, 32° at Kuopio and Sumburgh Head, 35° at Hangö, 36° at Helsingfors, Haparanda, and Nairn, 39° even at Oxford. Rising to 50° or more during day at our western and south-western stations, to 60° at Lyons, and 64° at Perpignan, and to 70° or more at many Italian and Algerian stations, but maxima ranging between 41° and 45° on our north and east coasts.

Wind strong to a gale from North and North-West over our Islands, from North-West and West in the north and west of France, and from North in Portugal; extremely variable in direction and light in force over central Europe, Southerly over the Netherlands and Denmark, and South-Easterly over northern Russia, Easterly in Lapland. Falling light over the United Kingdom later and shifting to South-East and East in the west of Ireland, but becoming strong from North-West over France; a gale reported in the Solent.

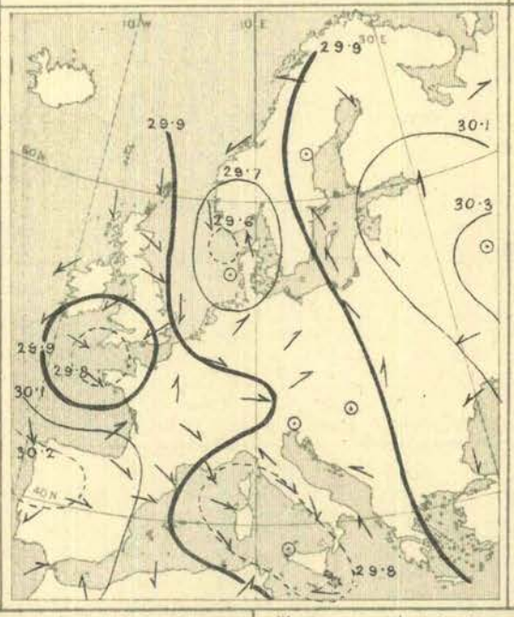
Barometer highest, (1) 30·3 ins. and more to 29·9 ins. over the south-east of Russia, Hungary, Poland, and eastern Germany; (2) 30·1 ins. and more to 29·9 ins. over Ireland, the Irish Channel, the Bay of Biscay and the Iberian Peninsula, and the neighbouring parts of the Atlantic. Lowest, 29·5 ins. in a small depression off our east coast, 29·7 ins. in another shallow one over the northern parts of Scandinavia, and 29·8 ins. and less in another over the Mediterranean and Gulf of Genoa. Depression off our east coasts apparently filling up over Holland later, but barometer falling on our western coasts.

Friday, 29th April.

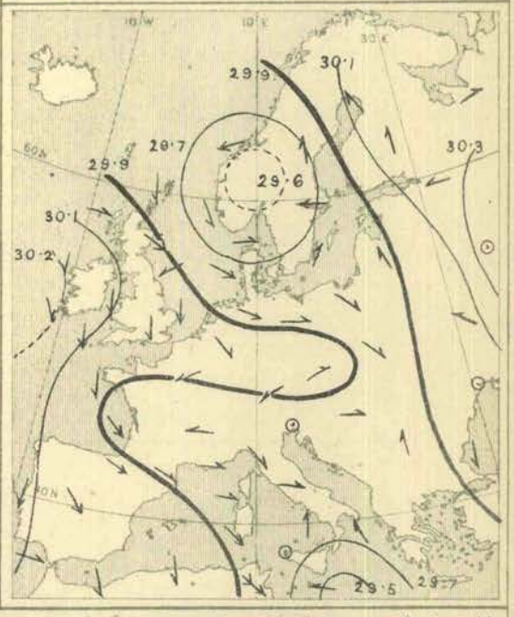
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the north and north-west of the British Islands, over Spain, the Black Sea, the southern and central parts of Russia; cloudy or overcast, and changeable, elsewhere. Snow falling at Christiansund, rain at Faerder, in the south-west of England, and in several parts of southern and central Europe. Snow and rain later over Norway, the Baltic, and the northern half of Scotland, and slight rain showers in the south of England, France, Germany, and Austria; heavy at Trieste.

Temperature showing a further decrease over southern Europe, but an increase over Austria, Poland, and south-eastern Europe; morning readings below 60°, except over southern Italy and the Adriatic, below 50°, except over the other parts of southern and south-eastern Europe, below 40° in the north-east of our Islands, Norway, and the north of Russia. Lowest, 36° at Archangel, Hangö, and Christiansund, 37° at Haparanda, Bodö, and Nairn, 38° at Shields. Rising to a little above 50° at some of our northern and western stations later, and in some parts of Germany and France, to 61° at Nice and Perpignan, to 70° and more at Palermo and Cagliari, and at several of the Algerian stations.

Wind very variable: South-Easterly over the Baltic, Denmark, and North Germany, Northerly in Norway and Scotland, North-Westerly to Northerly on our east coast; North-Easterly, fresh, in Ireland, North-Westerly over the Scilly Islands and Brittany, Easterly in Dorsetshire, Devonshire, and Wales. Separate cyclonic circulation over the Mediterranean and Adriatic. Becoming Northerly in Ireland later, North-Easterly over England and the north of France.

Barometer highest, (1) 30·3 ins. and more to 30·0 ins. over Russia and Sweden; (2) 30·0 ins. and more over the north-west of our Islands; (3) 30·2 ins. and more to 30·0 ins. over Spain and the south-west of France. Lowest, 29·6 ins. and less in a depression over the north-eastern side of the North Sea; 29·8 ins. and less in another over the western part of the English Channel; 29·8 ins. and less, also, in a larger and elongated depression over the Mediterranean. Depression over the Channel moving quickly to the south-eastward later, and barometer rising on all our coasts; new system appearing over Norway.

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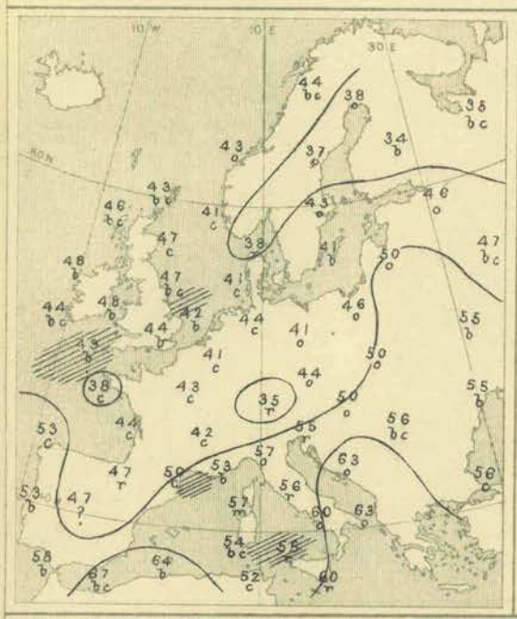
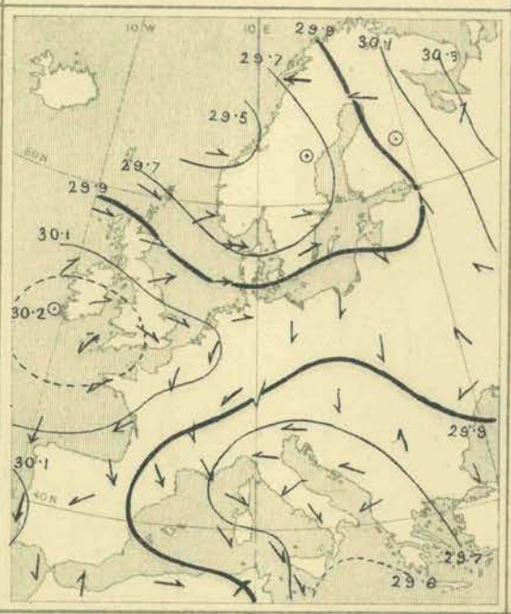
III.—SUMMARY OF WEATHER OVER EUROPE.

Saturday, 30th April.

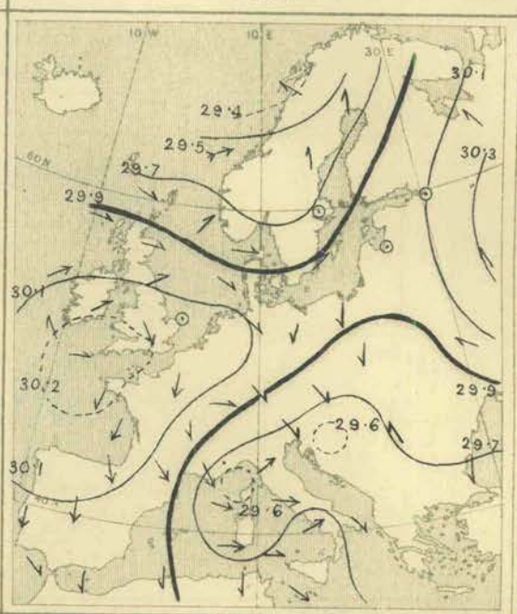
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



6 p.m.



Weather in morning fine and bright over Ireland and England, and also over Russia; fair over France and Spain, dull and unsettled over Italy and the Adriatic, with rain in places, as well as over Scandinavia and the Baltic. Rain later over northern Europe and the Baltic, and also at several stations in Poland, south Germany, Austria, and the southern half of France—amounts large at the Austrian stations. Solar halo in London at 6 p.m.

Temperature undergoing no marked change, except over the British Islands, where some increase occurred. Morning readings exceeding 60° at very few even of the Mediterranean stations (67° at Oran), and below 50° almost all over Europe. Below 40°, however, at very few even of the most northern stations; and lowest, 35° at Archangel, 37° at Hernösand and Hangö. Rising during day to 70° or more on the southern side of the Mediterranean, and also over central Austria, to 60° and more at a few of the southern French stations, and to 55° and more in many parts of the British Islands.

Wind (1) Westerly over the northern half of the British Islands and North Sea, South-Westerly over the Baltic, Easterly over Lapland; (2) Northerly over Germany, France, and the southern parts of our Islands, North-Westerly over the Mediterranean, South-Easterly to Easterly over southern Russia. Well-marked cyclonic circulation of strong winds prevailing over the northern parts of the Mediterranean, the south of France, and northern Italy later. Wind over England falling light and variable.

Barometer highest, (1) 30·3 ins. and more to 30·0 ins. over Russia; (2) 30·2 ins. and more to 30·0 ins. over the British Islands and western Europe. Lowest, 29·6 ins. to 29·5 ins. and less over Scandinavia; 29·7 ins. to 29·6 ins. and less over the eastern and south-eastern parts of the Mediterranean. Inclined to fall in our Islands later, and a well-marked depression being formed over the Gulf of Genoa.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟿ = a heavy gale; ➤ = a gale; ⟶ = a fresh to strong breeze: ⟶ = a light to moderate breeze: and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of this week the distribution of pressure over Europe was of a simple type—the highest readings being reported from the western and southern countries, the lowest in the north and north-east, the gradients being moderate and the prevailing winds North-Westerly. Very soon, however, complications began to appear; low-pressure systems of considerable magnitude, but little depth, were developed over northern Europe and the Baltic, and secondary systems advanced over the British Islands from the north-westward. Changeable showery weather set in, with winds varying in direction from South-West to North-West and North, and the barometer was low generally. As, however, the intervals between the depressions over the United Kingdom were longer than usual, and the air was dry, a large amount of sunshine was still registered during the daytime, and at night the frosts on the ground were sharp.

At the close of the period barometric readings were high over the Atlantic coasts, on the one hand, and over Russia on the other. Depressions were still found over northern Europe, but a new series had been developed over the south eastern countries, disturbing the weather over south eastern Europe and the Mediterranean to a great extent, and spreading northwards to south Germany.

BRIGHT SUNSHINE Values for the Week in addition to those found on page 98.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	31·5	?	30	?	EASTBOURNE	53·5	?	53	?
OSWALDKIRK (Yorkshire)	41·0	?	40	?	TENBY	63·5 *	?	63 *	?
WORKSOP	42·4	+ 9·1	42	+10	NEWQUAY	53·0	?	53	?
THURCASTON (Leicestershire)	42·2	+17·5	48	+16	TORQUAY	58·2 *	?	58 *	?
MARGATE	48·6	?	48	?	ARLEY COTTAGE (County Cavan)	44·5	?	43	?
WESTBOURNE (Sussex)	41·3 *	?	41 *	?	GUERNSEY	47·8 *	?	48 *	?
BRIGHTON	55·0	?	54	?					

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.
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VOL. IX. No. 18] *Third Series.* WEEK ENDING SATURDAY, 7TH MAY, 1892. [*Price 6d.* [*Annual subscription, post paid, £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years' observations (1871–90). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the ten years 1881-90. RAINFALL.—*The Mean amounts* are those for the corresponding periods in the twenty-five years 1866–90, but the *Mean numbers of Rainy Days* are those for the ten years 1881-90, only. BRIGHT SUNSHINE.—*The Mean values* employed are those for the corresponding periods in the ten years 1881–90.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

DISTRICTS. (See p. 104.)	Observed during the Week. Highest.	Observed during the Week. Lowest.	Averages of Daily Maxima.	Averages of Daily Minima.	Averages of Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	For the Week. Difference from Mean.	For the Week. Below 42°	For the Week. Difference from Mean.	From January 3rd, 1892. Above 42°	From January 3rd, 1892. Difference from Mean.	From January 3rd, 1892. Below 42°	From January 3rd, 1892. Difference from Mean.
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts. 0. SCOTLAND, NORTH	59	29	50·6	36·9	43·3	2 below.	31	− 2	14	+ 3	208	+ 2	738	+215
1. SCOTLAND, EAST	65	27	53·7	35·9	44·3	1 below.	42	− 1	17	+ 8	275	−21	797	+240
2. ENGLAND, N.E.	62	29	50·8	37·4	43·7	3 below.	31	−10	13	+ 9	256	−20	682	+190
3. ENGLAND, EAST	64	26	51.0	35·7	42·9	5 below.	33	−19	18	+12	316	- 48	767	+215
4. MIDLAND COUNTIES	64	24	52·9	33·6	42·7	6 below.	40	−14	24	+17	384	− 5	792	+251
5. ENGLAND, SOUTH	62	29	51·5	37·3	43·9	6 below.	33	−26	13	+10	374	−45	553	+140
Principal Grazing, &c., Districts. 6. SCOTLAND, WEST	62	26	54·9	36·6	45·3	2 below.	46	0	15	+ 9	300	− 2	609	+200
7. ENGLAND, N.W.	59	26	51·8	37·0	43·9	4 below.	34	−15	14	+10	278*	−32	580*	+169
8. ENGLAND, S.W.	62	26	52·0	37·7	44·4	5 below.	35	−18	12	+10	416	− 4	433	+119
9. IRELAND, NORTH	63	31	54·2	40·0	46·7	2 below.	41	− 7	6	+ 2	353	−32	484	+127
10. IRELAND, SOUTH	61	29	55·3	39·8	47·1	3 below.	45	− 9	6	+ 3	454	−38	410	+135
— CHANNEL ISLANDS	59	36	53·1	42·3	47·4	4 below.	38	−21	0	0	462	−41	164	+ 42

Rainfall.

DISTRICTS. (See p. 104.)	For the Week. Number of Rainy Days.	For the Week. Total Fall.	For the Week. More or less than the Mean for the Week.	From January 3rd, 1892. Number of Rainy Days.	From January 3rd, 1892. Difference from Mean.	From January 3rd, 1892. Total Fall.	From January 3rd, 1892. Difference from Mean.
		10ths of In.	10ths of In.			Ins.	Ins.
Principal Wheat-producing Districts. 0. SCOTLAND, NORTH	3	1	5 less.	83	− 8	13·4	− 3·4
1. SCOTLAND, EAST	1	less than ½	4 less.	58	−10	6·4	− 3·5
2. ENGLAND, N.E.	2	3	2 less.	63	− 2	5·7	− 2·1
3. ENGLAND, EAST	3	6	2 more.	65	+ 1	6·0	− 1·5
4. MIDLAND COUNTIES	2	5	1 more.	55	− 6	5·6	− 3·0
5. ENGLAND, SOUTH	1	1	4 less.	48	−13	4·8	− 4·1
Principal Grazing, &c., Districts. 6. SCOTLAND, WEST	1	1	6 less.	61	−12	9·4	− 7·7
7. ENGLAND, N.W.	1	2	3 less.	61	− 6	8·0*	− 2·3
8. ENGLAND S.W.	2	1	5 less.	61	− 8	8·0	− 5·3
9. IRELAND, NORTH	1	1	5 less.	65	−11	7·4	− 4·1
10. IRELAND, SOUTH	3	4	2 less.	61	−11	9·1	− 4·4
— CHANNEL ISLANDS	1	1	4 less.	67	− 8	9·1	− 1·9

Bright Sunshine.

DISTRICTS. (See p. 104.)	For the Week. Hours recorded.	For the Week. Difference from Mean.	For the Week. Percentage of possible Duration.	For the Week. Difference from Mean.	From January 3rd, 1892. Hours recorded.	From January 3rd, 1892. Difference from Mean.	From January 3rd, 1892. Percentage of possible Duration.	From January 3rd, 1892. Difference from Mean.
Principal Wheat-producing Districts. 0. SCOTLAND, NORTH	47	+ 1	44	+ 2	429	+ 73	31	+ 5
1. SCOTLAND, EAST	54	+13	50	+13	477	+ 81	35	+ 6
2. ENGLAND, N.E.	44	+ 8	42	+ 9	460	+112	33	+ 8
3. ENGLAND, EAST	34	− 9	33	− 9	469	+ 49	34	+ 4
4. MIDLAND COUNTIES	39	+ 1	38	+ 2	471	+ 98	34	+ 7
5. ENGLAND, SOUTH	40	− 2	38	− 3	514	+120	37	+ 9
Principal Grazing, &c., Districts. 6. SCOTLAND, WEST	55	+13	52	+12	490	+113	35	+ 8
7. ENGLAND, N.W.	47	+ 6	44	+ 5	501*	+134	36	+ 9
8. ENGLAND S.W.	49	+ 3	48	+ 4	587	+135	42	+10
9. IRELAND, NORTH	39	− 1	37	− 1	443	+ 66	32	+ 5
10. IRELAND, SOUTH	43	− 1	41	− 1	506	+ 59	36	+ 4
— CHANNEL ISLANDS	71	+17	70	+16	581	+ 48	41	+ 3

Bright Sunshine.—For several of the stations there are no "mean" values available, and the "difference from the mean" in some of the districts is consequently that of only a few of the stations.

General Remarks.

Weather during this period varied considerably. At first it was generally fine and bright, but soon became cloudy and unsettled, with cold rain in nearly all places. Towards the end of the week, however, it gradually improved and finally became fine and dry in all parts of the Kingdom.

Temperature was below the mean, the deficit ranging from 1° to 3° in most of the western and northern districts, to 5° in England E. and S.W., and to 6° in the Midland Counties and England S. The highest of the maxima were recorded either on the first or last day of the period, and ranged from 65° in Scotland E., and 64° in England E. and the Midland Counties, to 59° in Scotland N., England N.W., and the Channel Islands. During the middle part of the period the daily maxima were in many cases below 50°. The minima were very low for the time of year. The absolute lowest, which were registered during the early morning of the 7th over England and on irregular dates in Ireland and Scotland, varied from 24° in the Midland Counties (at Cirencester) and 26° in several other districts, to 31° in Ireland N., and to 36° in the Channel Islands.

Rainfall was rather more than the mean in England E. and the Midland Counties, but considerably less in all other districts.

Bright Sunshine was less prevalent generally than during the preceding week, but exceeded the normal value in all the western and northern parts of Great Britain, as well as in the Channel Islands. The percentage of possible amount of duration ranged from 70 in the Channel Islands, 52 in Scotland W., and 50 in Scotland E., to 38 over southern and central England, 37° in Ireland N., and 33 in England E.

Barometer and Wind.—At the commencement of the week the barometer was highest in the south and lowest in the north-west, the winds being light or moderate from the Southward. On the 2nd, however, the barometer became highest in the north and north-west while depressions appeared both off our south-western and south-eastern coasts, and the wind therefore shifted to the Eastward and North Eastward. These conditions continued, with but little variation, until the night of the 6th, when pressure became highest in the south and lowest in the north, the winds consequently becoming Westerly and South-Westerly.

* This value has been altered owing to the receipt of further information.

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II.—DATA from which the SUMMARY on page 103 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	48	35	44·7	36·6	40·4	− 2·0	8	19	4	0·31	−0·09	*	*	*	*
	Stornoway	54	32	49·0	38·4	43·4	− 2·1	25	10	3	0·05	−0·53	43·3	+ 1·5	40	+ 2
	Wick	56	36	50·0	38·7	44·0	− 1·0	28	9	1	0·02	−0·37	*	*	*	*
	Lairg Ⓢ	55	29	51·5	34·4	42·5	− 3·0	35	21	4	0·10	−0·41	*	*	*	*
	Glencarron Ⓢ	55	29	53·0	36 1	44·0	− 1·2	39	17	4	0·14	−0·85	*	*	*	*
	Fort Augustus Ⓢ	59	31	52·1	35·8	44·0	− 1·7	36	15	2	0·09	−0·39	40·0	?	37	?
	Fort William Ⓢ	56	32	53·6	37·1	44·9	− 2·4	41	14	1	0·02	−0·78	58·0	?	54	?
1. SCOTLAND, E.	Nairn	59	33	52·6	37·6	44·7	− 2·1	37	12	1	0·06	−0·26	*	*	*	*
	Aberdeen	59	32	51·6	37·4	44·1	− 2·1	34	13	2	0·02	−0·47	52·8	+13·6	49	+13
	Braemar Ⓢ	57	27	51·7	33·1	41·8	− 1·7	27	34	2	0·09	−0·44	58·0†	?†	54†	?†
	Ochtertyre Ⓢ	65	28	61·3	33·7	47·0	+ 1·3	70	23	1	0·08	−0·47	*	*	*	*
	Leith	60	33	53·7	37·6	45·2	− 2·4	41	12	0	—	−0·38	*	*	*	*
	Marchmont Ⓢ	58	33	51·0	35·7	42·9	− 1·4	33	18	0	—	−0·53	54·5	?	50	?
2. ENGLAND, N.E.	Alnwick Castle	56	34	48·1	38·6	43·1	− 2·1	22	10	0	—	−0·53	*	*	*	*
	Durham	62	29	51·8	34·9	42·8	− 3·4	35	20	2	0·17	−0·30	41·2	+ 6·7	39	+ 6
	Shields	59	34	51·4	36·9	43·7	− 2·7	33	14	0	—	−0·40	*	*	*	*
	Scarborough Ⓡ	62	35	48·8	38·3	43·7	− 3·5	27	10	5	0·47	+0·01	*	*	*	*
	York	61	33	54·3	37·0	45·1	− 3·1	43	14	3	0·25	−0·17	47·9	+ 9·4	45	+ 9
	Spurn Head	57	36	49·3	38·7	43·7	− 3·6	26	9	3	0·67	+0·33	*	*	*	*
3. ENGLAND, E.	Hillington Ⓡ	62	28	51·6	35·2	42·9	− 5·3	35	19	4	0·84	+0·42	38·8	− 4·9	37	− 5
	Yarmouth	57	32	48·7	38·6	43·4	− 4·0	24	10	4	0·69	+0·28	*	*	*	*
	Geldeston	59	29	50·5	36·4	43·0	− 5·4	31	16	3	0·65	+0·28	33·4	−14·0	32	−14
	Cambridge	64	26	53·3	34·1	43·1	− 6·3	41	22	3	0·45	+0·05	30·7	−10·3	30	− 9
	Rothamsted	61	26	50·8	34·3	42·1	− 6·1	33	22	3	0·30	−0·22	32·4	?	31	?
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	61	?26	54·3	?34·4	?43·8	?− 5·0	?45	?21	2	0·98	+0·56	*	*	*	*
	Loughborough	64	25	53·2	33·9	43·3	− 6·1	43	23	2	0·84	+0·42	*	*	*	*
	Stamford (Ketton Hall)	63	26	53·0	34·1	43·0	− 7·0	40	22	2	0·81	+0·35	*	*	*	*
	Cheadle Ⓡ	57	29	51·6	34·2	42·4	− 4·6	36	22	2	0·50	−0·01	*	*	*	*
	Churchstoke Ⓡ	59	27	51·7	31·3	41·0	− 5·8	27	41	2	0·60	+0·15	39·3	+ 1·0	37	0
	Hereford Ⓡ	62	28	53·5	33·4	42·9	− 6·3	42	24	3	0·28	- 0·18	*	*	*	*
	Cirencester	60	24	53·3	32·4	42·2	− 5·9	42	27	1	0·02	−0·47	35·0	− 5·9	34	− 6
	Oxford	62	30	51·9	35·4	43·2	− 6·2	36	18	3	0·14	−0·29	34·2	− 5·8	33	− 5
5. ENGLAND, S.	London	62	29	51·9	37·0	44·0	− 6·9	35	14	3	0·14	−0·29	30·4†	− 6·6†	29†	− 7†
	North Foreland	54	33	47·9	38·7	43·0	− 5·9	21	9	2	0·09	?	*	*	*	*
	Strathfield Turgiss Ⓡ												*	*	*	*
	Dungeness	56	30	50·9	36·9	43·5	− 6·0	32	14	1	0·01	−0·41	*	*	*	*
	Hastings (St. Leonards)	57	33	50·7	38·4	44·2	− 5·7	31	10	1	0·03	−0·44	42·5	− 4·9	41	− 5
	Southampton	62	31	55·5	36·7	45·5	− 5·2	47	15	1	0·02	−0·48	44·8	+ 0·8	43	0
	Hurst Castle	55	33	52·7	38·0	44·9	− 4·8	37	11	1	0·06	−0·36	*	*	*	*
	Stowell Ⓡ	58	29	50·5	35·1	42·5	− 6·4	32	19	1	0·09	?	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	60	33	57·7	37·7	47·1	− 0·6	54	12	2	0·07	−0·81	*	*	*	*
	Glasgow	59	32	55·2	36·5	45·3	− 2·2	46	15	0	—	−0·54	51·4	+15·9	48	+16
	Ardrossan	62	34	55·6	38·0	46·3	− 2·3	47	11	0	—	−0·53	*	*	*	*
	Glenlee Ⓢ	60	26	54·5	32·8	43·3	− 3·2	48	26	0	—	−0·66	*	*	*	*
	Douglas (Isle of Man)	56	33	51·7	38·2	44·4	− 3·3	33	11	2	0·31	−0·19	58·2	+ 9·4	55	+ 8
7. ENGLAND, N.W.	Newton Reigny	57	26	52·2	33·3	42·2	− 3·2	38	24	0	—	−0·46	48·6	+ 7·4	45	+ 7
	Stonyhurst	57	34	51·5	36·1	43·3	− 4·7	34	17	2	0 22	−0·35	50·8	+10·8	43	+10
	Blackpool Ⓡ									0	—	−0·42	45·0	+ 2·3	42	+ 2
	Manchester	59	33	52·0	36·9	44·0	− 3·9	35	14	2	0·27	−0·23	*	*	*	*
	Liverpool Obsy. (Bidston)	59	36	52·6	38·1	41·9	− 4·3	37	11	2	0·30	−0·08	*	*	*	*
	Llandudno Ⓡ												44·4	+ 3·9	42	+ 2
	Holyhead	55	38	50·6	40·6	45·3	− 3·7	29	4	2	0·25	−0·18	*	*	*	*
8. ENGLAND, S.W.	Llandovery	60	26	55·6	32·6	43·4	− 4·8	49	26	1	0·07	−0·56	*	*	*	*
	Pembroke	54	39	51·0	41·3	45·9	− 2·6	30	2	1	0 15	−0·30	46·6	− 1·4	45	− 1
	Arlington (N. Devon)	55	30	50·3	35 6	42·5	− 5·2	30	18	2	0·05	−0·61	*	*	*	*
	Cullompton Ⓡ	62	28	52·8	34·9	43 3	− 5·9	39	20	2	0·05	−0·50	47·7	+ 8·6	46	+ 8
	Falmouth	56	37	52·4	40·7	46·2	− 3·8	35	4	2	0·05	−0·61	50·7	+ 4·7	49	+ 4
	Plymouth	56	33	52·0	39·0	45·1	− 6·3	34	8	2	0·02	−0·48	48·7	+ 4·4	47	+ 4
	Prawle Point	52	38	49·7	40·1	44·6	− 4·4	26	5	1	0·01	−0·38	*	*	*	*
9. IRELAND, N.	Malin Head	53	40	50·4	42·1	46 0	− 2·9	28	0	1	0·01	?	*	*	*	*
	Londonderry	?	36	?	39·8	?	?	?	?	1	0·03	−0·48	*	*	*	*
	Mullaghmore	56	38	54·0	42·6	48·0	− 1·5	42	0	2	0·04	−0·46	*	*	*	*
	Belmullet	57	40	52 0	42·6	47·0	− 3·5	35	0	1	0·05	?	*	*	*	*
	Markree Castle	61	31	56·0	38·1	46·5	− 1·7	48	11	1	0·13	−0·37	44·5	+ 3·7	42	+ 3
	Brookeborough	63	33	56·7	37·1	46·3	− 1·2	51	14	1	0·06	−0·51	*	*	*	*
	Armagh	61	34	55·4	38·1	46 2	− 1·8	46	11	1	0·02	−0·46	33·2	− 6·2	31	− 6
	Donaghadee	57	40	53·4	42·7	47·7	0·0	40	0	1	0·02	−0·47	*	*	*	*
	Edgeworthstown	59	32	56·0	37·0	45·9	− 1·6	48	14	3	0·17	−0·35	*	*	*	*
10. IRELAND, S.	Dublin	59	38	54·0	40·3	46·7	− 3·0	40	5	2	0·48	+0·02	41·8	− 3·5	40	− 3
	Parsonstown	61	32	56·3	39·0	47·1	− 1·6	48	8	3	0·31	−0·18	47·3	+ 5·8	45	+ 4
	Kilkenny	60	33	55·4	38·0	46·2	− 2·7	46	11	3	0·49	+0·01	*	*	*	*
	Waterford	60	35	55·5	38·9	46·7	− 3·6	46	9	2	0·33	−0·22	*	*	*	*
	Roche's Point	55	38	53·0	41·0	46·6	− 3·9	36	3	2	1·05	+0·32	*	*	*	*
	Valencia	59	37	55·0	40·7	47·4	− 2·8	43	4	2	0·16	−0·64	41·0	− 4·7	39	− 5
	Killarney	59	29	56·6	38·8	47·2	− 2·3	50	9	3	0·28	?	*	*	*	*
	Foynes	60	37	56·7	42·0	48·9	− 0·7	48	0	3	0·25	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	56	40	51·9	42·9	47·1	− 3·4	36	0	1	0·12	−0·33	*	*	*	*
	Jersey	59	36	54·3	41·6	47·6	− 3·7	41	1	1	0·06	−0·38	68·3	+17·3	67	+16

Stations marked Ⓡ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

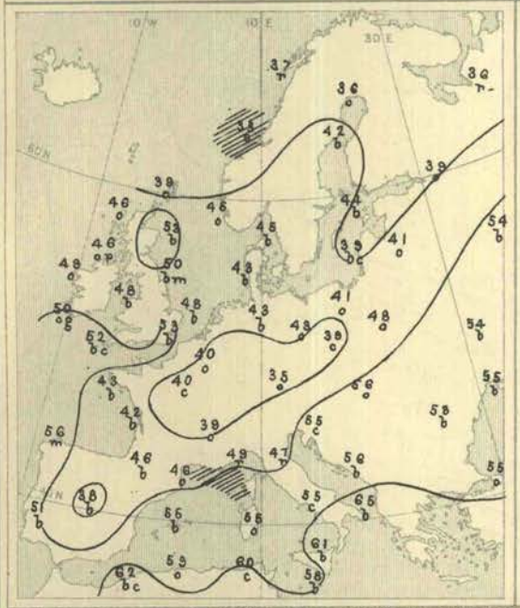
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory and the Meteorological Office, Victoria Street. For additional Reports of Sunshine see last page.

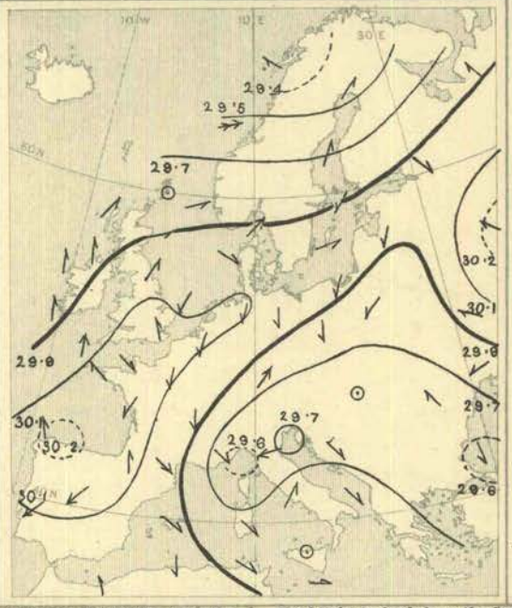
III.—SUMMARY OF WEATHER OVER EUROPE.

Sunday, 1st May.

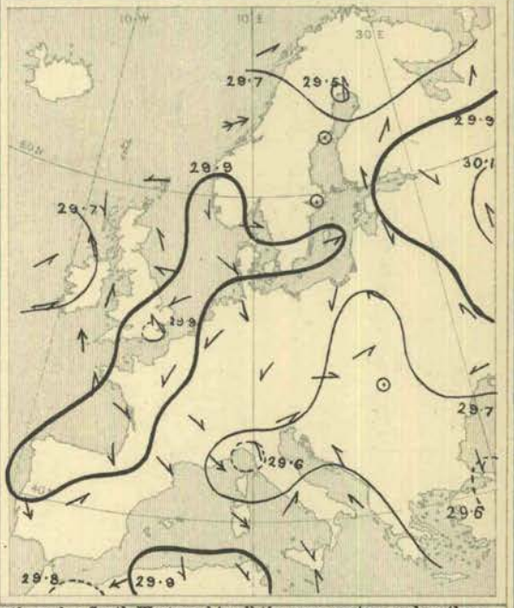
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather fine over Great Britain, France, and Spain, as well as in Denmark, Sweden, and the central and southern parts of Russia. Dull in most other countries, with rain or snow in the west of Norway; rainy also over the south of France and northern Italy. Rain falling later at most of the Irish stations—heavily at Roche's Point. Thunderstorm occurring at Nice in the afternoon. Bright aurora seen in the north of Scotland at night.

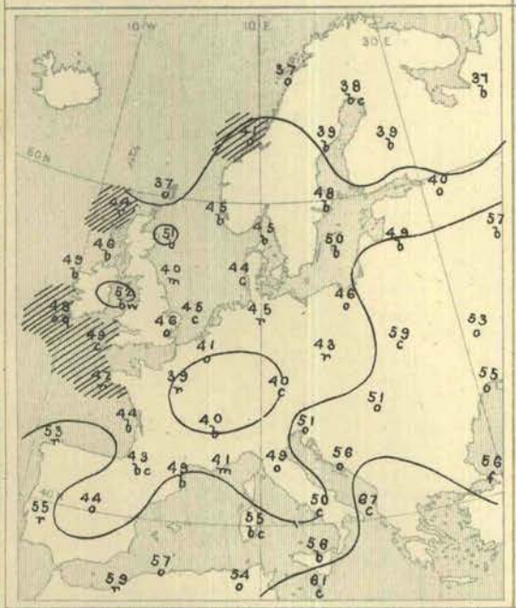
Temperature highest, (1) 65° at Brindisi, 62° at Oran, 61° at Palermo, and 60° at La Calle; (2) 53° at Aberdeen, 52° at Scilly, and 51° at Leith and Dungeness. Lowest, (1) 33° at Christiansund, 36° at Haparanda, and 37° at Bodö and Uleaborg; (2) 35° at Munich, 36° at Le Mans, and 39° at Lyons; (3) 38° at Madrid. Rising during day to between 60° and 64° over the inland parts of England, but remaining below 50° in some parts of central France, and below 60° in the Riviera. Exceeding 70° in the extreme southern parts of Spain and Italy.

Wind light to fresh from the Southward or South-Westward in all the more western and northern parts of the United Kingdom, as well as in Sweden and Finland; strong from the Westward in the west of Norway, with a gale at Christiansund. Light from the Northward on the south-east coasts of England, and moderate or fresh from the same quarter over France and Germany; North-Westerly over the central parts of the Mediterranean and South-Westerly over central Italy. North-Easterly in Spain, variable in Algeria. Subsequently backing to the South-Eastward in many parts of the United Kingdom.

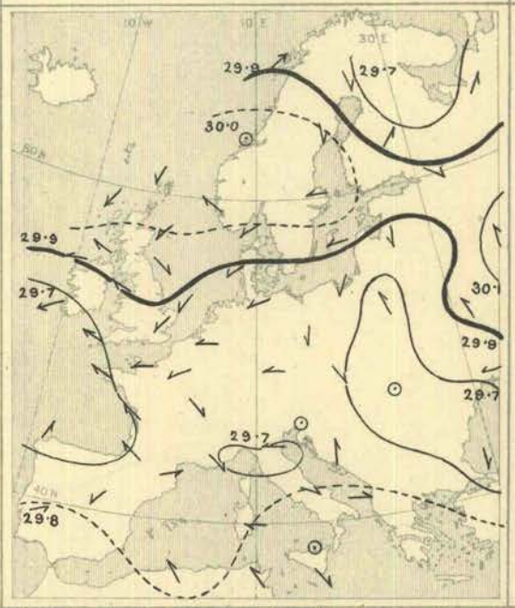
Barometer highest, 30·2 ins. and upwards in an anticyclone lying over central Russia; 30·1 ins. and upwards in an elongated area extending north-eastwards from Spain to the Netherlands and south-east of England. Lowest, 29·4 ins. and less in a depression lying over the north-west of Norway; 29·6 ins. and less in another disturbance lying over the Gulf of Genoa; 29·8 ins. and less in a third lying off the west of Ireland. The last-mentioned disturbance subsequently spreading eastwards and barometer falling briskly in all parts of the United Kingdom. Depression off north-west of Norway moving eastwards to Lapland.

Monday, 2nd May.

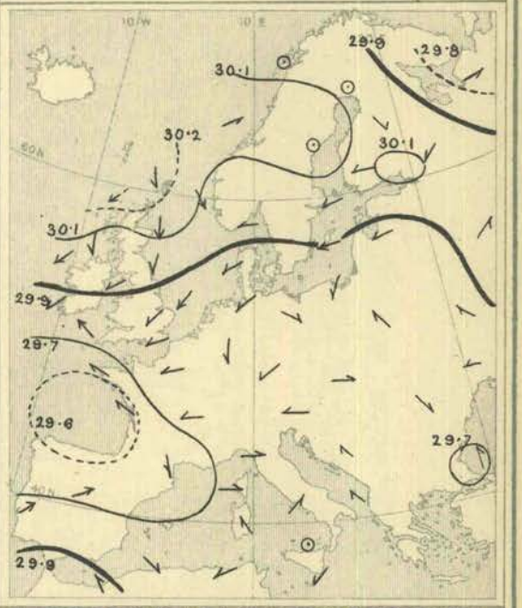
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather fine in many parts of our Islands, Scandinavia, and Russia, as well as over the southern parts of France, but dull in the north of Scotland and the west of Norway, with rain in the Hebrides. Rainy also in the Netherlands, the extreme south-east of England, the north-east of France, central Italy, and the western parts of the Spanish Peninsula; dull in Germany and Austria. Rain falling during day in the east and south of our Islands generally, but weather remaining fine in the west. Thunderstorms occurring in some parts of north Germany.

Temperature highest, 67° at Brindisi, 61° at Malta, 60° at Bilbao, and 59° at Lemberg, Barcelona, San Fernando, and Oran; above 55° in many parts of western and central Russia, and above 50° in some of the more central parts of the United Kingdom. Lowest, (1) 35° at Uleaborg, 37° at Bodö, Archangel, and Sumburgh Head, and 38° at Haparanda; (2) 39° at Paris and Le Mans and 40° at Munich and Lyons; below 45° at most of the French and German stations. Daily maxima exceeding 55° in Ireland, the west of Scotland, and the north of England, and reaching 62° at Ardrossan; thermometer remaining below 50° in the south-east of England. Exceeding 65° in the southern parts of Spain and Italy and reaching 72° at Brindisi.

Wind light or moderate from the Eastward or North-Eastward over the greater part of our Islands, Denmark, the Netherlands, the North Sea, and the south of Scandinavia, but strong to a gale from the South-Eastward on our extreme south-west coasts. Moderate from the North-Westward over the northern parts of Sweden, light from the South-Westward in the north of Russia, and from the South-Eastward in the south of that country. Westerly in Italy, variable in Germany, Austria, and central France. Gale moderating later on our extreme south-west coasts, and wind backing to the Eastward; no important change occurring elsewhere.

Barometer highest, 30·2 ins. and upwards in a well-marked anticyclone lying over central Russia; 30·0 ins. and upwards in a large area lying over Scandinavia, the north of Scotland, and the adjacent parts of the Atlantic. Lowest, 29·6 ins. and less in a depression over Lapland; 29·7 ins. and less in three other systems—one lying over the Bay of Biscay and our extreme south-west coasts, another over Austria, Turkey, and western Russia, and the third (a small disturbance) over northern Italy and the Gulf of Genoa. Depression over Bay of Biscay subsequently moving south-eastwards; disturbance over Lapland travelling away to the eastward.

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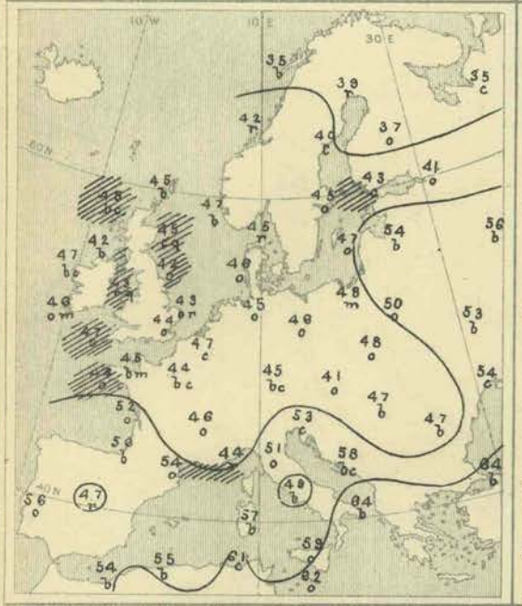
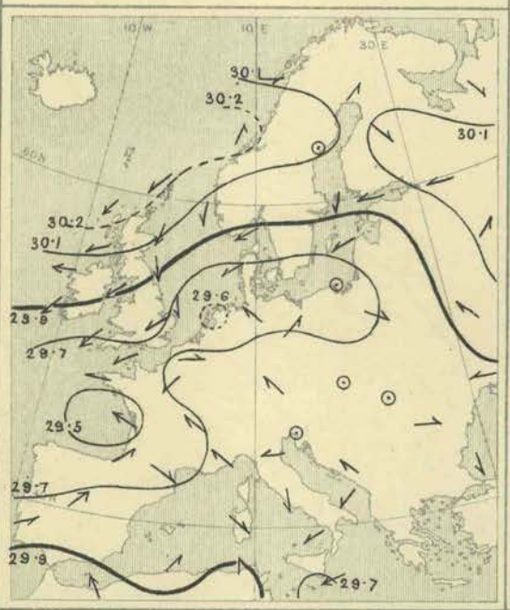
Tuesday, 3rd May.

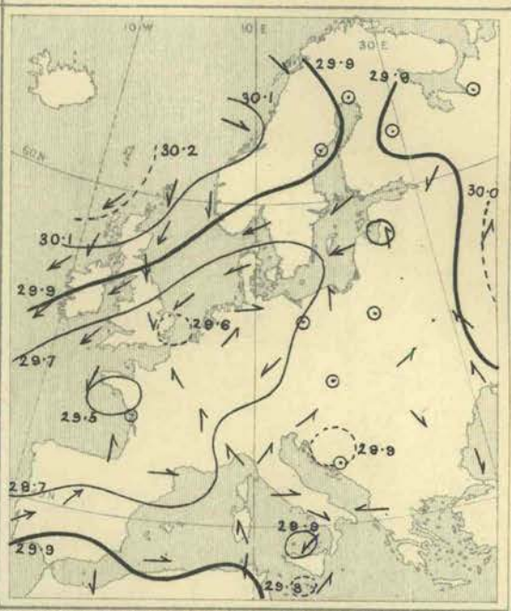
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather dull over the greater part of our Islands and the Continent, with rain at many of the English stations, as well as in various parts of France, Spain, and Scandinavia. Fine and bright in the extreme north and north-west of the United Kingdom, as well as over Italy, Algeria, and the greater part of eastern Europe. Rain falling later in the south of Ireland, and considerable quantities in the central and southern parts of France, with thunderstorms at Lyons, Toulon, and Bordeaux, as well as at Vienna.

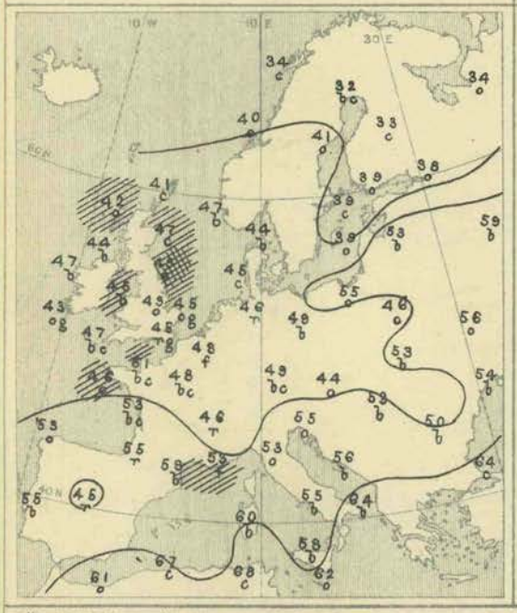
Temperature highest, 64° at Brindisi and Oran, 63° at Barcelona, 62° at Malta, and 61° at La Calle; above 55° over the central and southern parts of the Mediterranean generally, as well as over central Russia, but below 50° in the Riviera. Lowest, (1) 35° at Bodö and Archangel, 37° at Kuopio, 38° at Uleaborg, and 39° at Haparanda; below 45° in many parts of our Islands and Germany, and as low as 41° at Spurn Head and Loughborough. Daily maxima below 55° in most parts of the United Kingdom, and below 45° over central England; thermometer exceeding 60° at several of the French stations and exceeding 65° in most parts of southern and eastern Europe.

Wind strong from the North-Eastward over the greater part of the United Kingdom, moderate from the same quarter over Denmark and the south of Scandinavia. Light from the South-Westward or Westward in the north of Scandinavia. South-Westerly in Spain, as well as at many of the German stations, but South-Easterly over the central parts of France. Light from the Eastward in the south of Russia, variable in Austria, Northerly in Italy. No important change occurring during day.

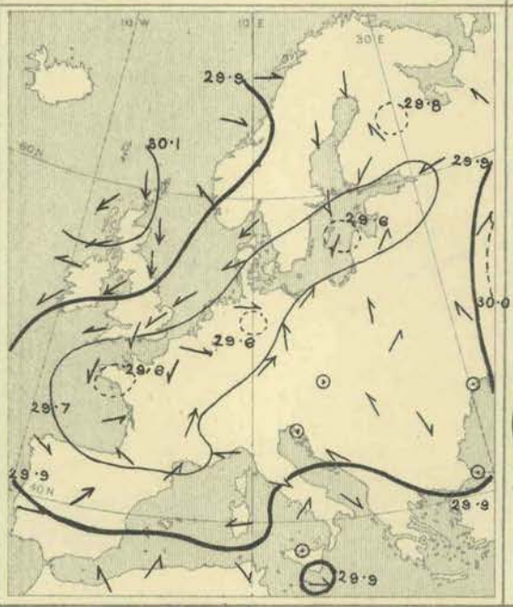
Barometer highest, 30·2 ins. and upwards in an anticyclone lying to the northward of our Islands; 30·1 ins. and upwards in another system lying over the central parts of Russia. Lowest, 29·5 ins. and less in a depression over the Bay of Biscay and the west of France; 29·6 ins. and less in another disturbance over Holland; 29·7 ins. and less in a third lying over the Mediterranean, near Malta. Depression over Holland subsequently moving slowly westward to the English coasts, and barometer falling in most parts of the United Kingdom; disturbance over Bay of Biscay partially filling up.

Wednesday, 4th May.

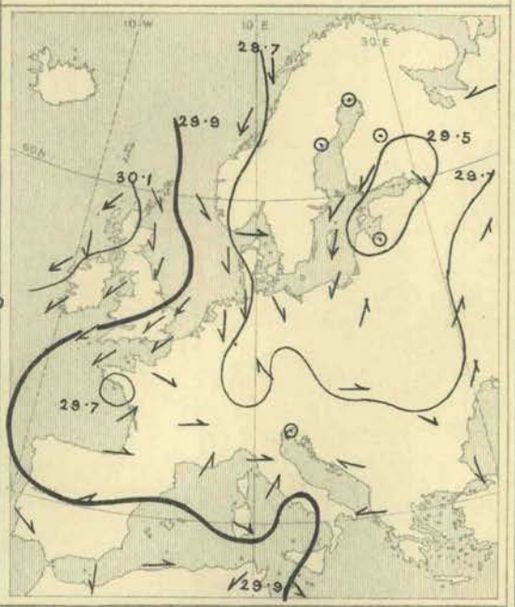
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather fair over the greater part of our Islands, but dull and rainy at some of the inland English stations. Fine and bright in the south of Scandinavia, as well as in Austria, the central and southern parts of Russia, and the south of Italy. Dull in most other European countries, with rain in many places. Rain falling during day in several parts of Scandinavia, and thunderstorm occurring at Lyons and Toulouse. Heavy rain (1·6 ins.) falling at San Fernando.

Temperature highest, 68° at La Calle, 67° at Algiers, and 64° at Barcelona, Brindisi, and Constantinople; above 60° over the central and southern parts of the Mediterranean generally, and above 55° over central Russia. Lowest, 32° at Haparanda, 33° at Kuopio, 34° at Bodö and Archangel, and 35° at Uleaborg; below 40° over Sweden and northern Russia generally, and very little above that point in the north of Scotland. Daily maxima below 50° in almost all parts of the United Kingdom, but thermometer exceeding 55° at some of the south-western stations, exceeding 60° in France, and reaching 70° or more at some of the Italian stations.

Wind moderate to strong from the North-Eastward in our Islands. Moderate from the Westward in the west of Norway; light from the Northward in Sweden. Light from the Southward or South-Eastward over Russia and some parts of Germany and Austria, Westerly or North-Westerly in Spain, Southerly or South-Westerly in Algeria and the south of France, variable in Italy. Wind subsequently falling light on the east coast of Great Britain, but increasing to a gale from the Northward in the west of Norway.

Barometer highest, 30·1 ins. and upwards in an anticyclone lying over Scotland; 30·0 ins. and upwards in another over central Russia. Lowest, 29·6 ins. and less in three small depressions—one lying over the Baltic, another over north Germany, and a third over the north-west of France; long trough with readings below 29·7 ins. extending north-eastwards from the Bay of Biscay to the Baltic Provinces. Brisk fall of barometer taking place over northern Europe during day. Baltic depression increasing in size, but remaining very shallow.

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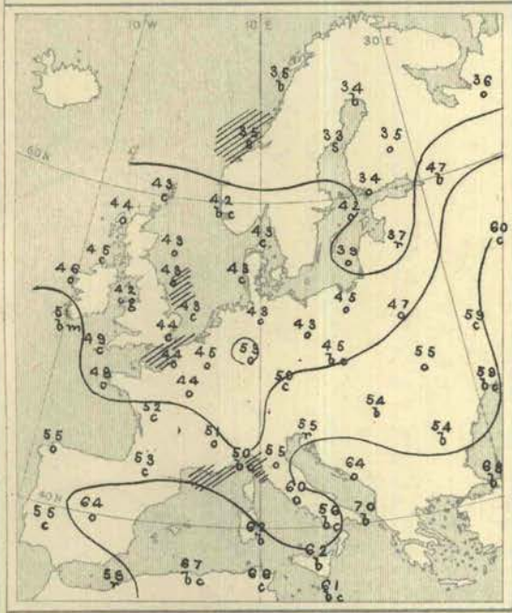
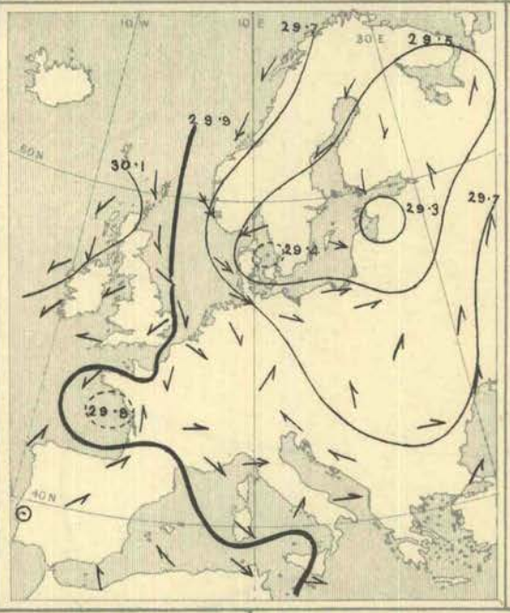
III.—SUMMARY OF WEATHER OVER EUROPE.

Thursday, 5th May.

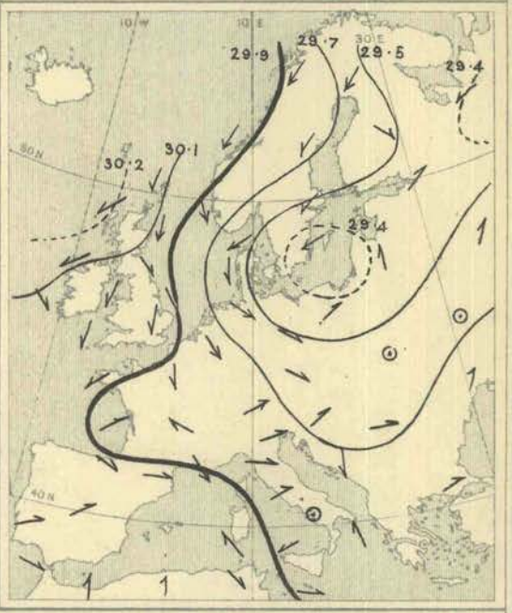
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather dull over Great Britain and a considerable portion of the Continent, with rain at one or two of the Russian and German stations, and with snow at Hernösand and Christiansund. Fine in the south of Ireland and the west and south of France, southern Italy, Algeria, and some parts of Austria and the south of Russia. Sky clearing later in many parts of Great Britain, but rain falling at some of the French stations. Thunderstorm reported at Lyons, as well as in some parts of Germany.

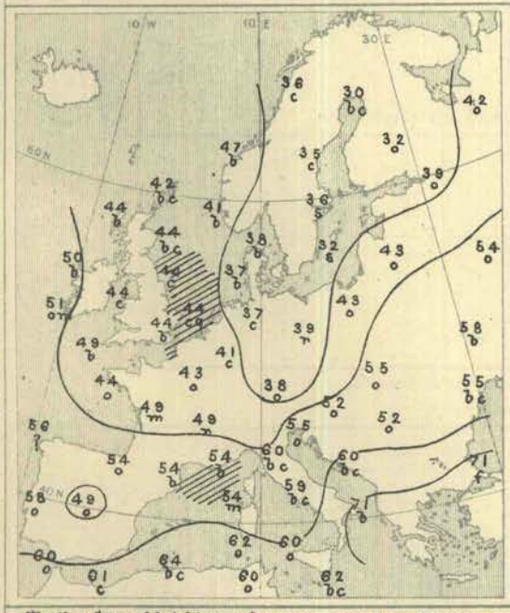
Temperature highest, 70° at Brindisi, 68° at Constantinople, 67° at Algiers, 66° at La Calle, and 64° at Lésina and Madrid; above 60° over the central and southern parts of the Mediterranean generally, and above 55° in most parts of southern and eastern Europe. Lowest, 33° at Hernösand, 34° at Hangö and Haparanda, and 35° at Bodö, Christiansund, Kuopio, and Helsingfors; below 40° over the northern parts of Russia and Scandinavia generally, and very little above that point over central England. Daily maxima below 50° over the English midland and south-eastern counties, but thermometer exceeding 60° in many parts of France, and exceeding 70° in the south of Italy.

Wind light or moderate from the Northward or North-Eastward over the greater part of our Islands and Scandinavia, but North-Westerly in Denmark and the Netherlands, Westerly or South-Westerly in Germany, and Southerly in Russia. Light from the South-Westward over the greater part of Spain and Italy, but North-Westerly in the south of France, Southerly in Algeria, variable in Austria. No important change occurring during day, but Northerly wind increasing to gale in the south of Norway.

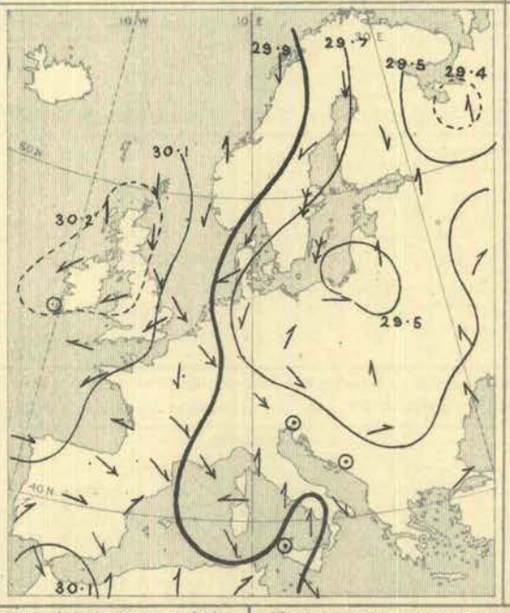
Barometer highest, 30·1 ins. and upwards in an anticyclone lying off the north-west of our Islands. Lowest, 29·3 ins. and less in a depression lying over the Baltic Provinces; 29·4 ins. and less in another disturbance lying over Denmark; 29·8 ins. and less in a third system lying over the Bay of Biscay. Danish depression subsequently moving eastwards; shallow system over Bay of Biscay filling up.

Friday, 6th May.

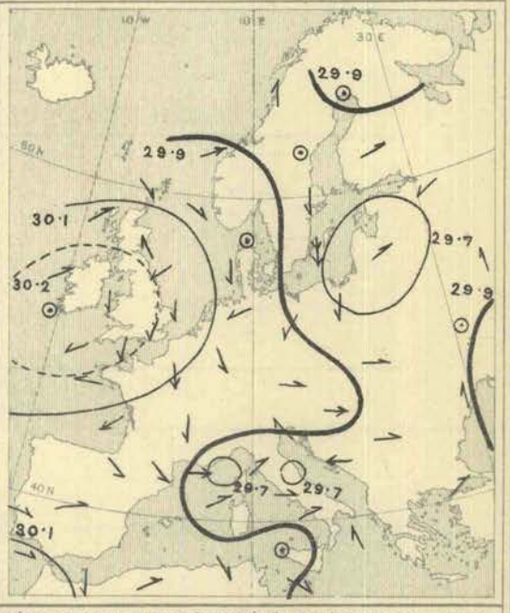
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather fine and bright over the greater part of our Islands, as well as in Norway, Denmark, Italy, Algeria, and the south of France. Cloudy or overcast elsewhere, with rain at some of the French stations, and with snow in Finland and the south of Sweden. A little rain falling later in the Shetlands and Hebrides; sky clearing in France. Thunderstorms occurring in several parts of Austria, as well as at Algiers.

Temperature highest, 71° at Brindisi and Constantinople, 64° at Algiers, and 62° at Cagliari and Malta; above 55° over the Mediterranean and Adriatic generally, and above 50° over Austria and the central and southern parts of Russia. Lowest, 30° at Haparanda, 32° at Kuopio, Hangö, and Helsingfors, and 33° at Uleaborg; below 40° in most parts of Scandinavia, Denmark, and northern Russia, and below 45° in many parts of Great Britain. Daily maxima over our Islands below 50° at several of our eastern, northern, and southern stations, but thermometer reaching 57° at Nairn and 61° at Parsonstown. Exceeding 60° in the west and south of France, and exceeding 70° in Algeria and the south of Italy, the highest readings of all being 82° at Laghouat and 77° at Brindisi and Biskra.

Wind moderate to strong from the Northward over Sweden, Denmark, the North Sea, and the eastern and south-eastern parts of Great Britain; strong gale reported in the south of Sweden. North-Easterly to Easterly over the Channel and west of France; light from the Eastward in Ireland, and from South in the Hebrides. Moderate to strong from the North-Westward in Germany; light from the Westward or South-Westward in Austria, Southerly in Russia, and also in Italy and Algeria. Subsequently backing to the Southward or South-Westward at several of our more northern stations. Strong Westerly winds setting in over the extreme south of France.

Barometer highest, 30·2 ins. and upwards in an anticyclone lying over the western and northern parts of the United Kingdom. Lowest, 29·4 ins. and less in a depression lying near the White Sea, 29·5 ins. and less in another disturbance lying over the Baltic Provinces; gradients rather steep over Sweden, Denmark, and the southern parts of the North Sea. Anticyclone over our Islands subsequently moving southwards, and barometer falling somewhat decidedly on our extreme northern coasts. Depression over White Sea moving away to the north-eastward; system over Baltic Provinces gradually filling up.

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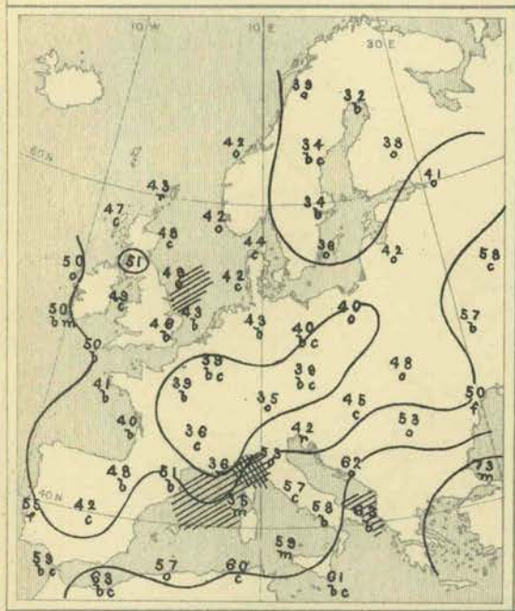
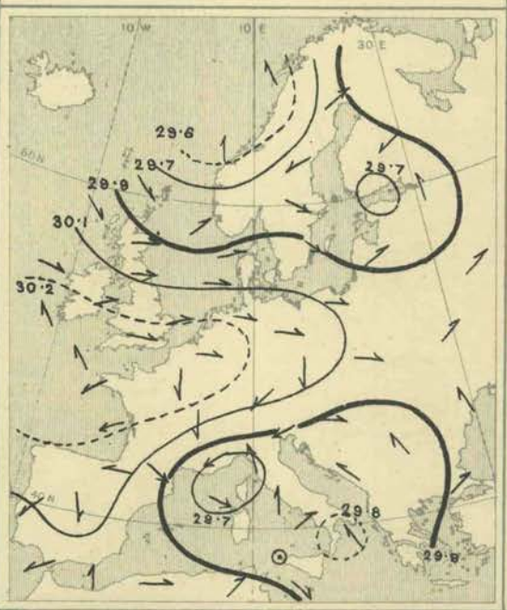
III.—SUMMARY OF WEATHER OVER EUROPE.

Saturday, 7th May.

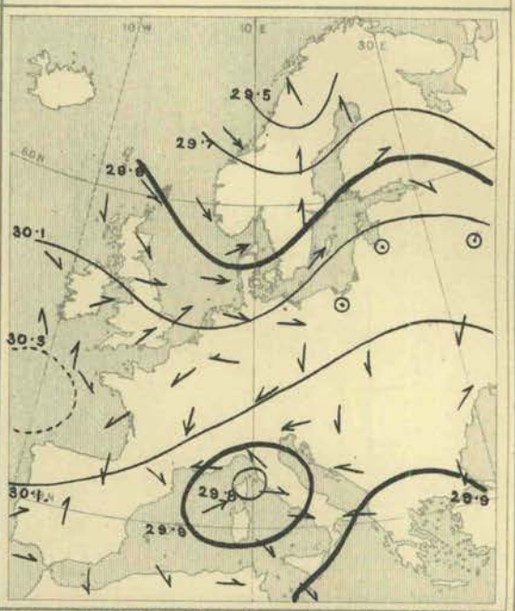
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



6 p.m.



Weather fine and bright in all the more southern parts of the United Kingdom, as well as in Sweden, Germany, France, Spain, and the south of Italy. Cloudy or overcast elsewhere, with rain in the Shetlands, and also at Nice and Trieste, and with snow at Memel. Rain falling during day at several of the Austrian and Italian stations, and snow at Christiansund.

Temperature highest, 73° at Constantinople, 63° at Brindisi and Oran, 62° at Lésina, and 61° at Oporto; above 55° at many of the Mediterranean and Adriatic stations, as well as over the central and southern parts of Russia. Lowest, (1) 32° at Haparanda, 34° at Hernösand and Stockholm, and 36° at Hangö; (2) 34° at Le Mans, 35° at Munich, 36° at Lyons, and 37° at Breslau and Belfort; below 40° in many parts of northern and central Europe. Rising during day to between 60° and 65° over the inland parts of England, but remaining below 60° at most of the French stations. Exceeding 70° in Spain, Sicily, and Algeria, the highest readings of all being 75° at Oran and Laghouat and 73° at Palermo.

Wind moderate from the Westward or North-Westward over the northern parts of the United Kingdom, but light from the South-Westward over the south of England, and also in the south of Norway. Strong from West in the south of Sweden, light from South or South-East in Russia and the north of Scandinavia, North-Easterly in France and Spain; strong in the Riviera. Southerly or South-Easterly in Italy. Light from the Westward or North-Westward in Germany; variable in Austria. Subsequently veering to the Northward in the north of Scotland; increasing to a moderate gale from the South-Westward in the south of Norway.

Barometer highest, 30·1 ins. to 30·3 ins. in an anticyclone lying over Ireland, England, France, Spain, and Germany; 30·1 ins. and upwards in another system lying over the southern parts of Russia. Lowest, 29·6 ins. and less in a depression lying off the north-west of Norway; 29·7 ins. and less in two other systems—one at the mouth of the Gulf of Finland and the other over the Gulf of Genoa; 29·8 ins. and less in a shallow disturbance over the south of Italy. Norwegian depression subsequently moving eastwards; other low-pressure systems dispersing gradually.

GENERAL NOTES.

The two anticyclonic systems which existed over Europe at the close of last week dispersed soon after the commencement of the present period, but a new high-pressure system was quickly formed over Scandinavia, the north of our Islands, and the adjacent parts of the Atlantic. On the 1st and 2nd a depression skirted our extreme south-west coasts in a south-easterly direction and passed on to the Bay of Biscay, the weather at the time being exceedingly dull, cold, and rainy over France, the south of our Islands, and the north of Spain. On the 3rd further shallow depressions were developed over the Netherlands, while numerous cyclonic systems appeared over the Baltic and the western and northern parts of Russia. The anticyclone in the north had in the meantime spread southwards over a considerable portion of the United Kingdom, and the winds over western Europe had shifted to the northward, with a gradual improvement in the weather. At the close of the week the high-pressure area was increasing in size and intensity, and spreading eastwards over Europe. Over Scandinavia and Italy the weather was affected by depressions which had appeared in those regions, but in all the more western and central countries the conditions were fair and dry.

BRIGHT SUNSHINE Values for the Week in addition to those found on page 104.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	49·7	?	46	?	EASTBOURNE	40·6	?	39	?
OSWALDKIRK (Yorkshire)	43·6	?	41	?	TENBY	44·9*	?	43*	?
WORKSOP	46·9	+10·4	45	+11	NEWQUAY	? 55·0	?	? 53	?
THURCASTON (Leicestershire)	41·7	+ 7·7	40	+ 6	TORQUAY	52·1*	?	51*	?
MARGATE	38·2	?	37	?	ARLEY COTTAGE (County Cavan)	40·2	?	38	?
WESTBOURNE (Sussex)	41·0*	?	40*	?	GUERNSEY	74·4*	?	73*	?
BRIGHTON									

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

Date of Report.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each Day.	Of Lowest each Day.	For whole of each Day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
January 9th, 1892.	Glencarron	42	20	34·4	26·2	30·4	−7·0	0	81	5	2·06	−0·23	—	—	—	—
" " "	Edgeworthstown	47	26	42·4	29·7	36·3	−2·5	1	45	2	0·08	−0·62	—	—	—	—
" 16th, "	Cambridge	—	—	—	—	—	—	—	—	—	—	—	13·3	+2·5	24	+6
" " "	Blackpool	41	23	36·1	27·5	32·0	−6·3	0	70	5	0·27	−0·42	0·0	−7·0	0	−13
" " "	Foynes	46	26	39·3	31·3	35·5	−6·8	0	46	5	0·88	?	—	—	—	—
" 23rd, "	Hastings	—	—	—	—	—	—	—	—	—	—	—	14·1	+0·6	24	+1
" " "	Oswaldkirk	—	—	—	—	—	—	—	—	—	—	—	0·0	?	0	?
" 30th, "	Glencarron	51	33	47·4	36·4	42·1	+4·4	24	16	7	8·94	+6·79	—	—	—	—
" " "	Guernsey	—	—	—	—	—	—	—	—				13·8	?	22	?
February 6th, "	Guernsey	—	—	—	—	—	—	—	—	—	—	—	12·9	?	20	?

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.
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VOL. IX. No. 19.] *Third Series.* WEEK ENDING SATURDAY, 14TH MAY, 1892. [*Price 6d.* [*Annual subscription post paid, £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years' observations (1871-90). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the ten years 1881-90. RAINFALL.—*The Mean amounts* are those for the corresponding periods in the twenty-five years 1866-90, but the *Mean numbers of Rainy Days* are those for the ten years 1881-90, only. BRIGHT SUNSHINE.—*The Mean values* employed are those for the corresponding periods in the ten years 1881-90.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 110.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1892. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	69	29	57·4	40·8	48·6	2 above.	51	+13	3	− 5	259	+16	741	+210
	1. SCOTLAND, EAST	68	29	57·7	40·4	48·6	2 above.	53	+ 4	4	− 2	328	−16	831	+238
	2. ENGLAND, N.E.	66	35	55·9	41·3	48·2	0 (average)	46	− 1	2	− 1	302	−22	684	+188
	3. ENGLAND, EAST	70	34	61·4	41·6	51·0	1 above.	65	+ 4	1	− 4	381	− 43	768	+211
	4. MIDLAND COUNTIES	70	32	64·5	40·7	51·9	2 above.	75	+14	4	− 1	459	+ 7	796	+248
	5. ENGLAND, SOUTH	75	32	64·0	42·7	52·7	2 above.	75	+ 9	0	− 2	451*	−33	554*	+139
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	70	31	60·3	42·9	51·1	3 above.	64	+12	0	− 4	364	+11	609	+195
	7. ENGLAND, N.W.	70	34	61·0	43·6	51·8	3 above.	69	+13	0	− 3	347	−16	580	+167
	8. ENGLAND, S.W.	76	31	63·6	41·0	53·2	3 above.	78	+19	0	− 1	494	+14	433	+118
	9. IRELAND, NORTH	70	30	60·6	43·9	51·7	2 above.	68	+14	0	− 2	421	−19	484	+124
	10. IRELAND, SOUTH	70	31	61·6	43·7	52·2	2 above.	71	+11	0	− 1	525	−28	410	+133
	— CHANNEL ISLANDS	67	36	60·8	47·0	53·5	2 above.	81	+15	0	0	543	−27	164	+ 42

Rainfall.

	DISTRICTS. (See p. 110.)	For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1892. Number of Rainy Days.	Difference from Mean.	Total Fall.	Difference from Mean.
			10ths of In.	10ths of In.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	7	1 more.	87	− 3	14·1	− 3·3
	1. SCOTLAND, EAST	3	2	2 less.	61	−11	6·6	− 3·8
	2. ENGLAND, N.E.	2	4	0 (average)	65	− 3	6·1	− 2·1
	3. ENGLAND, EAST	1	1	4 less.	66	− 1	6·1	− 1·9
	4. MIDLAND COUNTIES	1	1	4 less.	56	− 8	5·7	− 3·4
	5. ENGLAND, SOUTH	1	less than ½.	4 less.	50*	−14	4·8	− 4·6
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	3	9	3 more.	64	−13	10·3	− 7·5
	7. ENGLAND, N.W.	3	6	1 more.	64	− 7	8·6	− 2·1
	8. ENGLAND S.W.	1	1	5 less.	62	−10	8·1	− 5·8
	9. IRELAND, NORTH	3	8	3 more.	68	−13	8·2	− 3·8
	10. IRELAND, SOUTH	3	7	1 more.	64	−11	9·8	− 4·3
	— CHANNEL ISLANDS	1	less than ½.	4 less.	68	−10	9·1	− 2·3

Bright Sunshine.

	DISTRICTS. (See p. 110.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1892. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	45	+ 1	41	0	474	+ 81	32	+ 5
	1. SCOTLAND, EAST	52	+ 3	47	+ 2	529	+ 92	35	+ 5
	2. ENGLAND, N.E.	57	+16	52	+16	517	+133	34	+ 8
	3. ENGLAND, EAST	58	+11	54	+ 9	527	+ 62	35	+ 4
	4. MIDLAND COUNTIES	58	+18	54	+17	529	+116	35	+ 7
	5. ENGLAND, SOUTH	64	+19	60	+17	578	+141	38	+ 9
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	49	+ 5	45	+ 5	539	+121	36	+ 8
	7. ENGLAND, N.W.	61	+18	56	+16	562	+156	37	+10
	8. ENGLAND S.W.	73	+27	69	+25	660	+159	44	+11
	9. IRELAND, NORTH	47	+ 5	43	+ 5	490	+ 73	33	+ 5
	10. IRELAND, SOUTH	55	+10	51	+ 9	561	+ 73	37	+ 4
	— CHANNEL ISLANDS	76	+19	74	+17	657	+ 61	43	+ 4

Bright Sunshine.—For several of the stations there are no "mean" values available, and the "difference from the mean" in some of the districts is consequently that of only a few of the stations.

General Remarks.

Weather during this period was generally fine and dry. Towards the end of the week, however, it became dull and rainy in all the northern and western districts, while some slight showers were experienced at most of our southern and south-eastern stations.

Temperature just equalled the mean value in England N.E., but exceeded it in all other districts. In England E. the excess was only 1°, but in the other parts it amounted to 2° or 3°. The highest of the maxima were recorded generally during the middle part of the week, when they varied from 76° in England S.W. (at Llandovery), and 75° in England S. (at Southampton), to 70° in several other districts, and to 67° in the Channel Islands. The lowest of the minima occurred, as a rule, during the earlier part of the period, when the thermometer fell to 29° in Scotland N. and E., to 30° in Ireland N., 31° to 32° in several other localities, to 34° or 35° over north-western, north-eastern, and eastern England, and to 36° in the Channel Islands.

Rainfall was rather more than the mean in Ireland, Scotland N. and W., and England N.W. In nearly all other districts it was less than the normal, the fall over eastern, central, and southern England being very slight.

Bright Sunshine exceeded the mean considerably in nearly all districts, the percentage of the possible duration ranging from 74 in the Channel Islands, 69 in England S.W., and 60 in England S., and to 43 in Ireland N. and 41 in Scotland N.

Barometer and Wind.—During the greater part of this week the distribution of pressure over our Islands was anticyclonic. At first the barometer was highest in the south and south-east, and the winds were light from the Westward. The anticyclone then moved northwards, and by the 10th the highest pressures were found in the north, and the winds became North-Easterly to Easterly. Towards the end of the period the conditions underwent a decided change; depressions appeared over our northern districts from the Atlantic, a high-pressure area was established in the south-west and south, and the wind shifted to South-West and West in all parts of the Kingdom.

* This value has been slightly altered owing to the receipt of further information.

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II.—DATA from which the SUMMARY on page 109 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head ℌ	53	34	49·4	40·3	44·6	+ 0·5	25	5	4	0·50	+0·11	*	*	*	*
	Stornoway ℌ	63	30	55·9	39·4	47·2	+ 1·2	47	7	4	0·35	−0·24	42·6	+ 0·4	38	0
	Wick ℌ	60	36	54·4	42·4	48·0	+ 2·1	42	0	4	0·38	−0·01	*	*	*	*
	Lairg ℌ	67	29	61·5	38·9	49·5	+ 3·0	66	9	3	0·37	−0·13	*	*	*	*
	Glencarron ℌ	69	30	60·7	40·7	50·1	+ 4·1	62	4	3	1·32	+0·30	*	*	*	*
	Fort Augustus ℌ	67	34	60·3	40·2	49·7	+ 3·1	61	5	4	0·48	0·00	43·6	?	39	?
	Fort William ℌ	68	38	59·5	43·5	51·0	+ 2·8	63	0	4	1·38	+0·58	49·9	?	45	?
1. SCOTLAND, E.	Nairn ℌ	66	32	61·1	39·7	49·8	+ 2·1	64	6	2	0·19	−0·16	*	*	*	*
	Aberdeen ℌ	61	33	54·3	39·0	46·2	− 0·8	42	8	3	0·27	−0·20	43·7	+1·7	39	+ 2
	Braemar ℌ	54	38	50·3	43·2	46·5	+ 2·0	32	0	2	0·12	−0·39	70·0†	?†	63†	?†
	Ochtertyre ℌ	68	29	63·1	38·9	50·6	+ 3·9	73	9	3	0·28	−0·27	*	*	*	*
	Leith ℌ	66	36	58·3	41·7	49·5	+ 0·7	54	1	2	0·35	−0·03	*	*	*	*
	Marchmont ℌ	67	33	59·3	40·1	49·1	+ 2·8	58	5	3	0·24	−0·28	49·8	?	45	?
2. ENGLAND, N.E.	Alnwick Castle	60	36	55·4	43·0	48·8	+ 2·6	48	0	4	0·56	+0·04	*	*	*	*
	Durham	64	35	59·1	40·6	49·3	+ 2·0	57	4	2	0·47	0·00	52·8	+14·8	48	+13
	Shields	61	36	53·1	40·4	46·4	− 1·0	38	4	1	0·40	+0·01	*	*	*	*
	Scarborough ℳ	63	37	53·1	42·3	47·4	− 1·0	38	0	2	0·32	−0·13	*	*	*	*
	York	66	35	62·1	39·7	50·5	+ 1·1	69	6	2	0·48	+0·06	60·8	+19·3	56	+19
	Spurn Head	58	39	52·4	41·9	46·8	− 1·7	34	0	1	0·23	−0·11	*	*	*	*
3. ENGLAND, E.	Hillington ℳ	68	39	61·0	42·1	51·0	+ 1·4	63	0	1	0·08	−0·34	57·3	+11·2	53	+10
	Yarmouth	62	40	54·1	44·0	48·8	+ 0·1	48	0	0	—	−0·42	*	*	*	*
	Geldeston	64	36	59·1	41·1	49·6	+ 0·2	57	3	1	0·08	−0·30	58·0	+ 9·2	54	+ 6
	Cambridge	70	35	67·3	40·6	53·5	+ 2·9	86	4	2	0·07	−0·35	57·0	+13·2	53	+13
	Rothamsted	69	34	65·6	40·0	52·0	+ 2·6	78	6	2	0·06	−0·44	61·2	?	57	?
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	68	34	63·6	39·0	50·6	+ 0·7	73	8	1	0·17	−0·28	*	*	*	*
	Loughborough	70	35	65·1	41·7	52·8	+ 2·2	77	1	2	0·11	−0·35	*	*	*	*
	Stamford (Ketton Hall)	69	34	65·1	40·3	52·0	+ 1·1	77	5	2	0·09	−0·44	*	*	*	*
	Cheadle ℳ	66	35	61·4	41·6	50·9	+ 2·8	64	1	2	0·10	−0·42	*	*	*	*
	Churchstoke ℳ															
	Hereford ℳ	69	37	65·7	41·3	52·8	+ 2·4	79	2	1	0·06	−0·41	*	*	*	*
	Cirencester	68	32	63·6	39·0	50·6	+ 1·4	73	8	1	0·07	−0·43	63·3	+20·8	59	+18
	Oxford	69	36	66·7	41·9	53·6	+ 3·1	82	0	1	0·06	−0·38	60·5	+18·3	57	+17
5. ENGLAND, S.	London	71	37	68·3	42·7	54·7	+ 2·7	89	0	2	0·03	−0·40	53·5†	+13·6†	50†	+12†
	North Foreland	65	40	55·4	44·3	49·5	− 0·5	53	0	2	0·02	?	*	*	*	*
	Strathfield Turgiss ℳ	72	32	69·6	38·0	52·9	+ 2·2	93	11	2	0·05	−0·35	*	*	*	*
	Dungeness	62	38	58·3	43·7	50·6	− 0·1	60	0	0	—	−0·42	*	*	*	*
	Hastings (St. Leonards)	66	40	62·5	44·0	52·7	+ 1·4	75	0	0	—	−0·46	68·6	+17·5	65	+16
	Southampton	75	39	69·8	43·5	55·9	+ 4·1	97	0	0	—	−0·51	67·1	+20·8	63	+19
	Hurst Castle	66	39	63·1	44·4	53·2	+ 2·3	78	0	0	—	−0·42	*	*	*	*
	Stowell ℳ	68	35	64·9	41·0	52·2	+ 2·3	76	3	2	0·02	?	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	69	38	61·3	45·4	52·9	+ 4·2	76	0	4	1·64	+0·77	*	*	*	*
	Glasgow ℌ	67	39	60·1	42·9	51·0	+ 2·5	63	0	3	0·58	+0·04	42·8	+ 6·8	39	+ 7
	Ardrossan	68	38	55·6	43·4	51·0	+ 1·5	63	0	3	0·44	−0·10	*	*	*	*
	Glenlee ℌ	70	31	62·7	38·7	50·0	+ 2·5	70	9	3	1·13	+0·46	*	*	*	*
	Douglas (Isle of Man)	61	38	58·0	43·9	50·5	+ 1·8	60	0	3	0·75	+0·25	55·8	+ 5.8	51	+ 4
7. ENGLAND, N.W.	Newton Reigny	70	36	61·6	40·9	50 6	+ 4·2	65	3	3	0·49	+0·02	65·3	+21·3	59	+19
	Stonyhurst	66	34	58·9	42·5	50·2	+ 1·0	57	0	3	1·03	+0·45	59·5	+17·5	55	+16
	Blackpool ℳ									2	0·45	+0·01				
	Manchester	67	37	62·1	44·2	52·6	+ 3·5	74	0	3	0·49	−0·04	*	*	*	*
	Liverpool Obsy. (Bidston)	68	40	63·3	45·0	53·6	+ 3·2	81	0	2	0·35	−0·05	*	*	*	*
	Llandudno ℳ												57·3	+14·8	53	+13
	Holyhead	64	40	59·1	45·4	51·8	+ 1·7	69	0	3	0·76	+0·33	*	*	*	*
8. ENGLAND, S.W.	Llandovery	76	33	68·7	41·4	54·2	+ 4·6	88	2	2	0·21	−0·43	*	*	*	*
	Pembroke	65	41	58·9	46·4	52·3	+ 2·8	72	0	2	0 13	−0·33	69 0	+20·5	64	+19
	Arlington (N. Devon)	69	34	63·6	41·3	51·8	+ 3·1	72	2	2	0·19	−0·48	*	*	*	*
	Cullompton ℳ	72	31	67·8	40·0	53·1	+ 2·9	86	6	0	—	−0·50	65·6	+23·7	62	+23
	Falmouth	68	36	60·6	46·1	52·9	+ 1·9	76	0	1	0·04	−0·60	82·8	+35·1	79	+33
	Plymouth	71	35	63·4	45·5	53·9	+ 1·2	83	0	1	0·01	−0·47	73·3	+27·5	70	+26
	Prawle Point	68	39	62·4	47·3	54·4	+ 4·6	87	0	0	—	−0·38	*	*	*	*
9. IRELAND, N.	Malin Head	65	44	58·6	46·6	52·2	+ 2·3	71	0	3	0·68	?	*	*	*	*
	Londonderry	?	39	?	44·7	?	?	?	?	3	0·58	+0·05	*	*	*	*
	Mullaghmore	68	39	60·0	46·1	52·6	+ 2·0	74	0	3	0·90	+0·37	*	*	*	*
	Belmullet	68	40	59·9	? 46·1	? 52·6	? + 1·3	? 74	0	3	1·10	?	*	*	*	*
	Markree Castle	68	30	61·3	42·3	51·2	+ 2·6	64	0	3	0·70	+0·22	45·2	+ 3·4	41	+ 2
	Brookeborough	70	33	62·2	41·6	51·3	+ 2·9	67	1	3	1·00	+0·43	*	*	*	*
	Armagh	68	31	61·4	41·9	51·0	+ 1·8	63	0	4	0·60	+0·13	48·3	+ 7·3	44	+ 6
	Donaghadee	62	43	58·1	46·6	52·0	+ 3·1	70	0	3	0·64	+0·14	*	*	*	*
	Edgeworthstown	68	34	63·1	40 0	50·9	+ 2·3	71	6	2	0·71	+0·19	*	*	*	*
10. IRELAND, S.	Dublin	69	39	62·8	45·6	53·7	+ 3·0	82	0	3	0·62	+0·16	58·1	+10·0	54	+10
	Parsonstown	70	36	64·9	42·3	53·2	+ 3·6	78	0	3	0·76	+0·26	54·0	+11·8	50	+10
	Kilkenny	68	31	62·9	39·3	50·4	+ 0·3	70	8	3	0·51	+0·05	*	*	*	*
	Waterford	65	33	61·1	40·9	50·4	− 0·6	63	3	3	0·31	−0·22	*	*	*	*
	Roche's Point	58	41	56·4	45·7	50·7	− 0·8	61	0	3	0·55	−0·17	*	*	*	*
	Valencia	67	36	60·3	46·7	53·1	+ 1·9	78	0	4	0·68	−0·08	52·3	+ 5·5	49	+ 5
	Killarney											?	*	*	*	*
	Foynes	69	40	62·7	45·5	53·6	+ 3·1	81	0	3	1·45	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	62	44	58·4	48·0	52·9	+ 1·5	76	0	1	0·01	−0·41	*	*	*	*
	Jersey	67	36	63·1	45·9	54·0	+ 1·8	84	0	0	—	−0·42	71·6	+18·3	69	+17

Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked ℌ with the Scottish Meteorological Society.

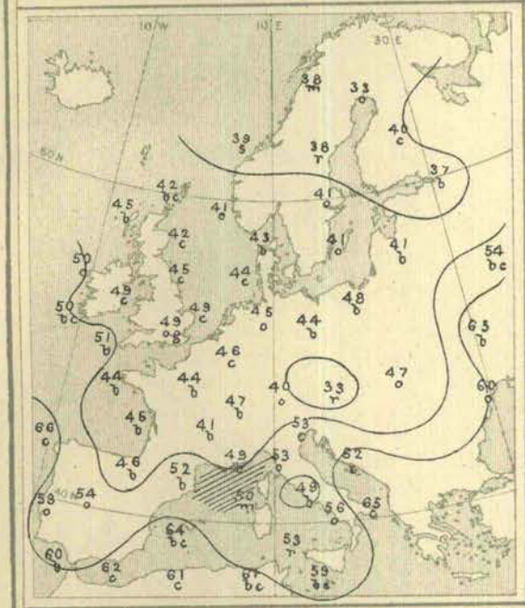
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory and the Meteorological Office, Victoria Street. For additional Reports of Sunshine see last page.

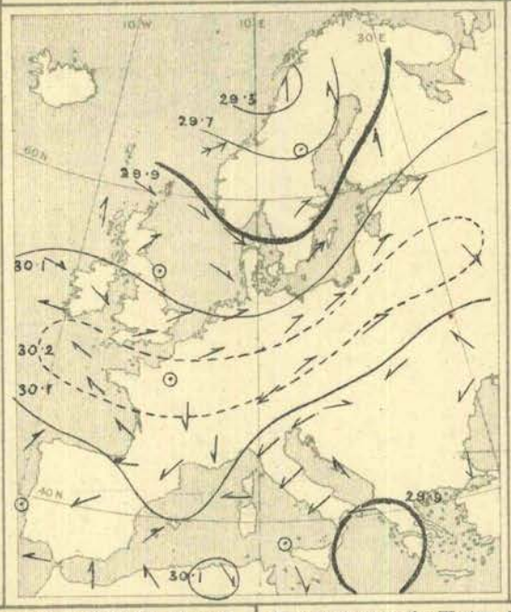
III.—SUMMARY OF WEATHER OVER EUROPE.

Sunday, 8th May.

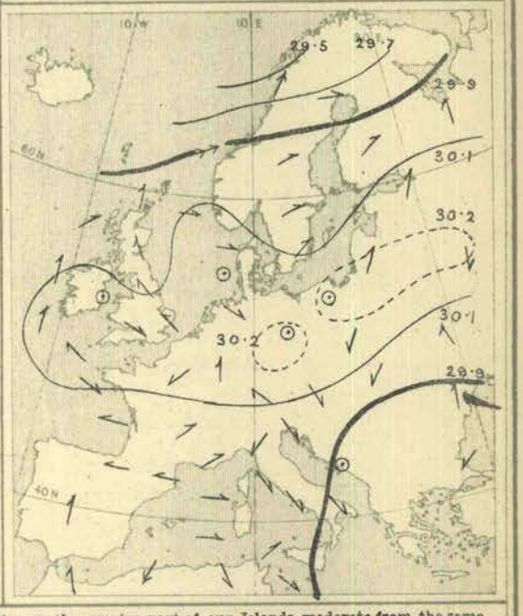
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather fine and bright over the southern and extreme northern parts of the United Kingdom, as well as over France, Germany, and the greater part of Russia; dull over the central parts of our Islands, and also over Scandinavia, Austria, Spain, and Italy; rainy at Hernösand, Buda-Pesth, and Palermo, snow at Christiansund. Sky clearing later in most parts of the United Kingdom, but a little rain falling in the Shetlands, Hebrides, Scandinavia, and Finland, also in several parts of Austria, Italy, and Algeria.

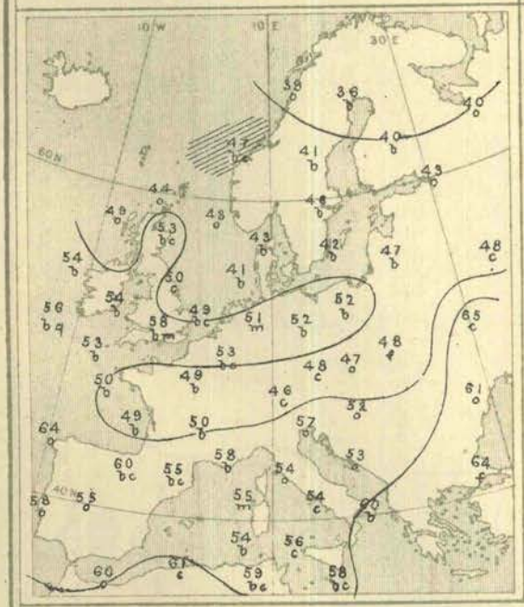
Temperature highest, 66° at Corunna, 65° at Kiev and Brindisi, and 64° at Kharkov, Nicolaieff, and Palermo; above 60° at several of the Mediterranean and Adriatic stations, as well as over the southern parts of Russia. Lowest, (1) 33° at Haparanda, 37° at Uleaborg and St. Petersburg, and 38° at Bodö, Hernösand, and Helsingfors; (2) 33° at Buda-Pesth and 37° at Le Mans and Prague; below 45° in most parts of northern and central Europe. Rising during day to between 60° and 65° over the inland parts of England; exceeding the latter point at several of the French stations, exceeding 70° at Brindisi, Madrid, and in several parts of Algeria; exceeding 80° at Laghouat.

Wind light from the Westward over the greater part of our Islands, moderate from the same quarter or from North-West on the eastern shores of the North Sea; moderate from South-West in north Germany, strong to a gale from the South-Westward or Southward over the Baltic and Gulf of Finland. Light from the North-Eastward over Italy and the southern parts of France and Russia, Easterly in Spain and the west of France. Variable in Austria and Algeria. Subsequently backing to the Southward in many parts of Ireland and Scotland; gale lulling over the Baltic and Gulf of Bothnia, and North-Westerly winds setting in over eastern parts of the Mediterranean, Northerly over Algeria.

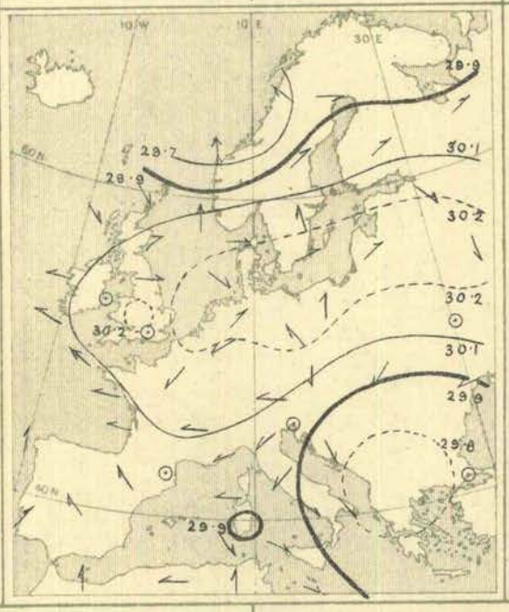
Barometer highest, 30·2 ins. and upwards to 30·6 ins. in an anticyclonic band stretching across the British Islands, France, Germany, and central Russia. Lowest, 29·5 ins. and less in a well-marked depression lying over the north-west of Norway; 29·9 ins. and less in a shallow disturbance lying off the south of Italy. Western part of high-pressure band giving way later and barometer falling slowly in our Islands and France.

Monday, 9th May.

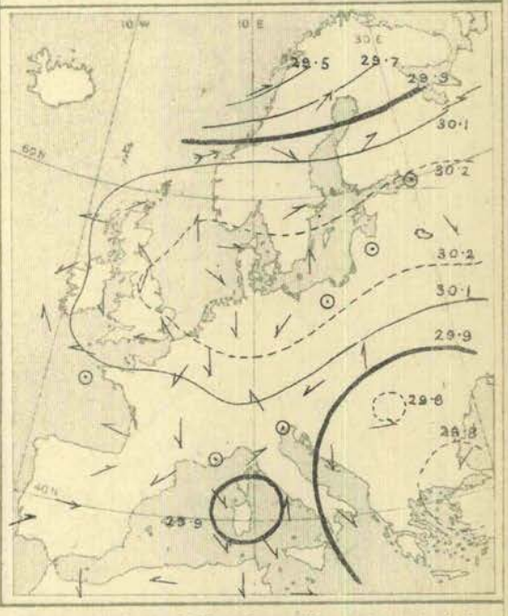
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or overcast over the Spanish and Balkan Peninsulas, Austria, and the southern half of Russia, also in the extreme north of Scotland, the north of Norway, and over several parts of northern Russia; clear and bright elsewhere, but rather hazy over England and the Channel. Rain later in Norway and Caithness, also over south-eastern Europe, several parts of Italy, and the Spanish Peninsula.

Temperature in morning exceeding 60° at many stations over south-eastern Europe and the Mediterranean, as well as in the north of Spain (70° reported at Bilbao); exceeding 50° over the greater part of the British Islands, lower over central and northern Europe. Lowest, 36° to 40° over Lapland, the Kola Peninsula, and White Sea. Rising later to between 65° and 70° in many parts of Ireland and England, to a still higher value over the west and south-west of France, and in some parts of Spain, Italy, and Algeria, and almost touching 80° at Biskra.

Wind (1) South-Westerly to North-Westerly in Scotland, Westerly over the greater part of the North Sea, blowing a gale from South in the west of Norway, light Southerly over Sweden, and South-Westerly at Archangel; (2) mainly North-Easterly over central Europe, Northerly over Austria, and North-Westerly to Westerly (variable) over the Adriatic and eastern half of the Mediterranean; (3) Easterly over the major part of Ireland, England, the Channel, and Bay of Biscay, South-Easterly to Southerly over Spain and Portugal. Veering South-Westwards over the northern half of Scandinavia later, and blowing strongly; North-Easterly to Easterly breezes becoming general over central and western Europe, including the British Isles.

Barometer highest, 30·2 ins. and more to 30·6 ins. in a large anticyclone covering all but the most northern and most southern countries. Lowest, 29·7 ins. and less in a depression off the north-west of Norway, and 29·8 ins. and less in another over the Balkan Peninsula; a shallow secondary to latter disturbance lying between Sardinia and Italy. Northern depression moving north-eastwards later, those over south-eastern Europe undergoing great modification.

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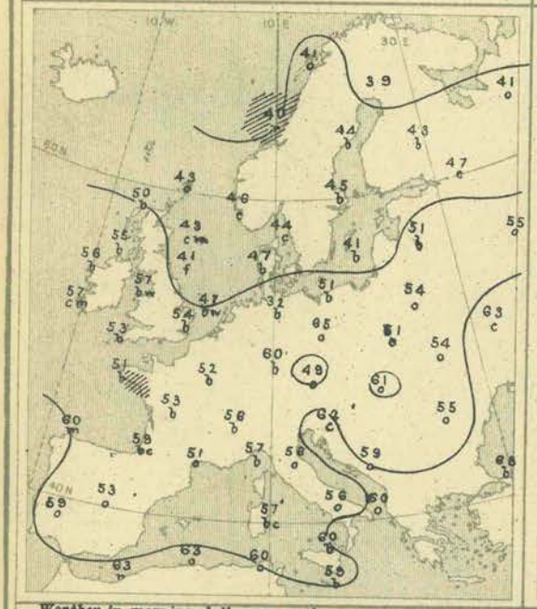
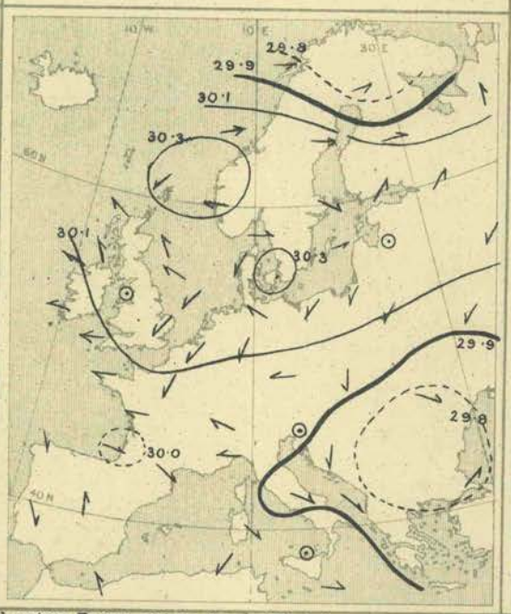
III.—SUMMARY OF WEATHER OVER EUROPE.

Tuesday, 10th May.

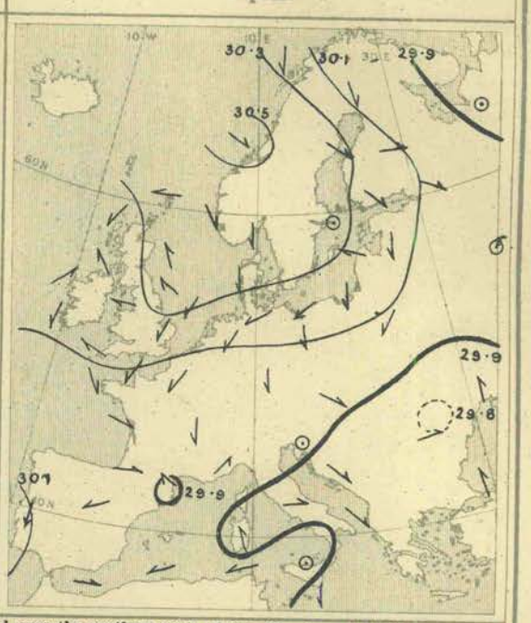
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning dull over south-western, south-eastern, and eastern Europe, and on the Algerian coasts, with rain in many places; cloudy and rainy also in the west of Norway, fine and bright at nearly all the other European stations, including those in the British Islands. Rain during day in Norway, and a little in the north-east of France; fine all day in our Islands, but lunar halos seen in some parts of Great Britain at night. Thunderstorms occurring at Vienna and Szegedin.

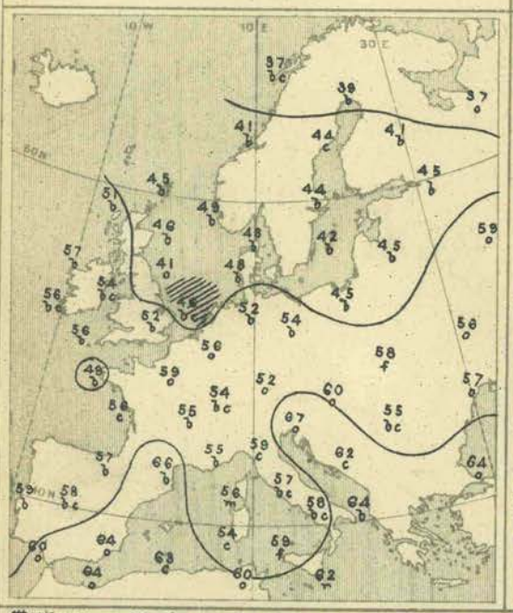
Temperature in morning exceeding 60° over south-eastern Europe, at several of the Algerian stations, in the south of Italy, and on some parts of the Spanish and Portuguese coasts; rather below that value, but above 50°, over western and central Europe, still lower elsewhere. Lowest, 39° to 42° over the extreme northern countries, 41° at Shields, 43° at Aberdeen. Rising later to between 65° and 69° over many inland parts of England and Ireland, and to 70° or more over the greater part of France, Spain, Italy, and Algeria; highest readings of all, 88° at Cape Béarn and 86° at Florence.

Wind strong from the Westward over the northern parts of Scandinavia, and light Westerly at the more southern stations; light South-Westerly over Finland, Southerly over northern Russia; light North-Easterly to Northerly over central Europe, North-Easterly to Easterly over France, North-Easterly to South-Easterly over the British Islands. Very variable over the Mediterranean, but chiefly North-Westerly in direction over the eastern half and light in force. Subsequently veering to the North-Westward over the northern parts of Scandinavia and falling light.

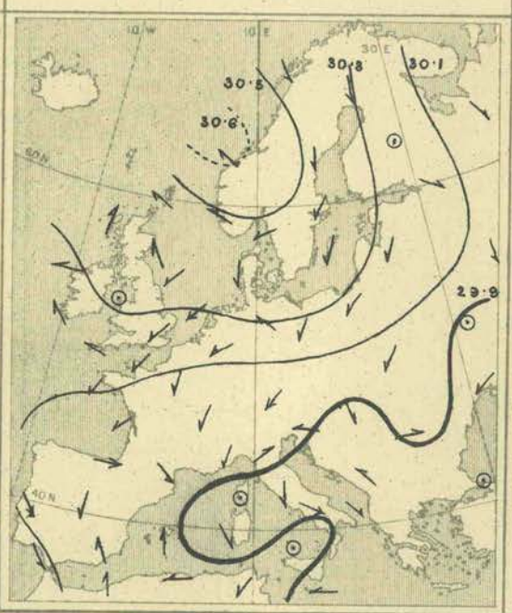
Barometer highest, 30·3 ins. and more to 30·1 ins. in a large anticyclonic system of irregular form covering the whole of the British Islands, the North Sea, the Netherlands, the Baltic, central Russia, and north Germany. Lowest, 29·8 ins. and less over Lapland on the one hand, and over the Balkan Peninsula on the other. Falling slightly over the south-east of England and north-east of France later, but rising in Scandinavia. Depression over Lapland moving away to the eastward.

Wednesday, 11th May.

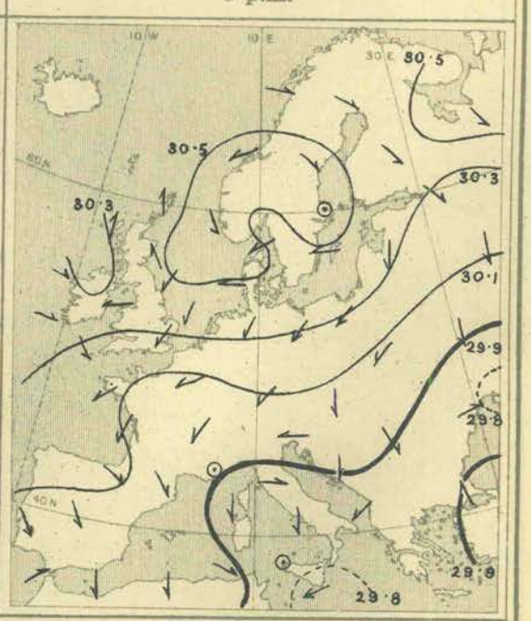
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather fine and bright over the whole of our Islands and the greater part of the Continent, dull in Austria and over the southern portions of Germany and Russia; rain at Cracow. Dull also in Algeria and rainy at Malta. No great change occurring over the British Islands during day, but a solar halo seen at Jersey in evening and thunderstorm reported over France at night; rainfall at Le Mans 0·9 in.

Temperature highest, 69° at Barcelona, 67° at Palma, 66° at Perpignan, and 64° at Bilbao, Brindisi, Nemours, and Constantinople; above 55° over southern and eastern Europe generally, as well as in the extreme west and south-west of our Islands. Lowest, 37° at Archangel and Bodö, 39° at Haparanda and Uleaborg, and 41° at Kuopio, Hangö, Christiansund, and Shields; below 45° over Scandinavia and northern Russia generally. Rising during day to 65° or more at several of the English and Irish stations, and reaching 71° in London. Exceeding 70° in many parts of France, Italy, Spain, and Algeria, and reaching 77° at Perpignan.

Wind light or moderate from the North-Eastward over Denmark, Germany, the Netherlands, and the greater part of England and France. Light from the South-Eastward in Ireland, Scotland, and the west of Norway, Northerly over Sweden, Russia, and Austria, variable in Spain and Algeria, South-Westerly or Westerly in Italy. Subsequently shifting to the South-Westward or Westward in Ireland, but freshening from North-Eastward over our southern counties and France; no important change occurring elsewhere.

Barometer highest, 30·5 ins. to 30·6 ins. in a large anticyclone lying over Norway and the adjacent parts of the Atlantic. Lowest, 29·9 ins. and less over Russia, Turkey, Austria, and a considerable portion of Italy. Slight fall taking place in many parts of western Europe during day, and shallow low-pressure area beginning to appear off our extreme north-west coasts.

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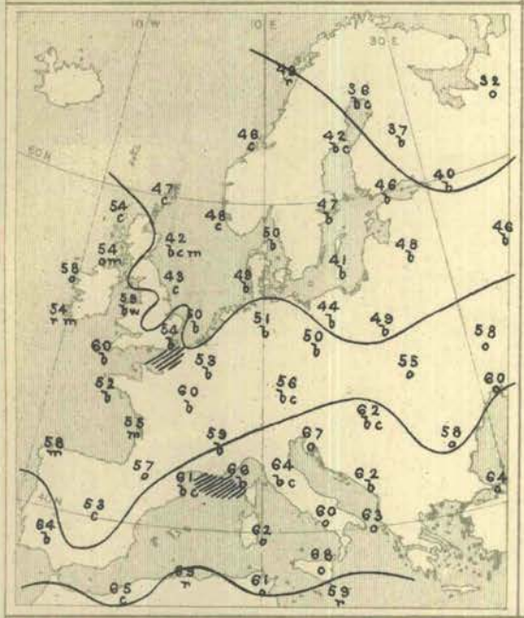
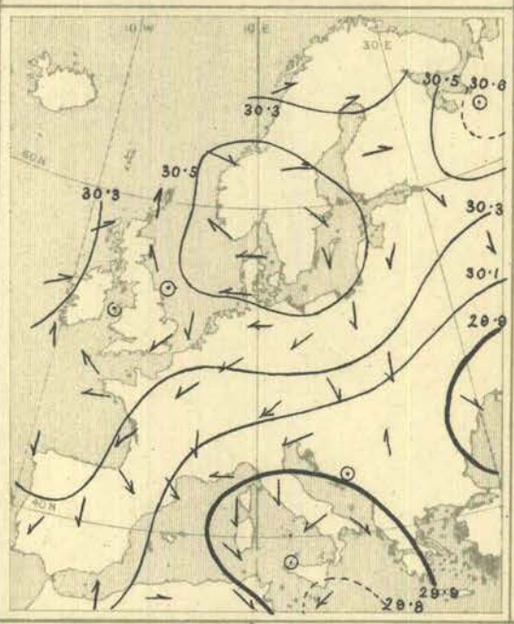
III.—SUMMARY OF WEATHER OVER EUROPE.

Thursday, 12th May.

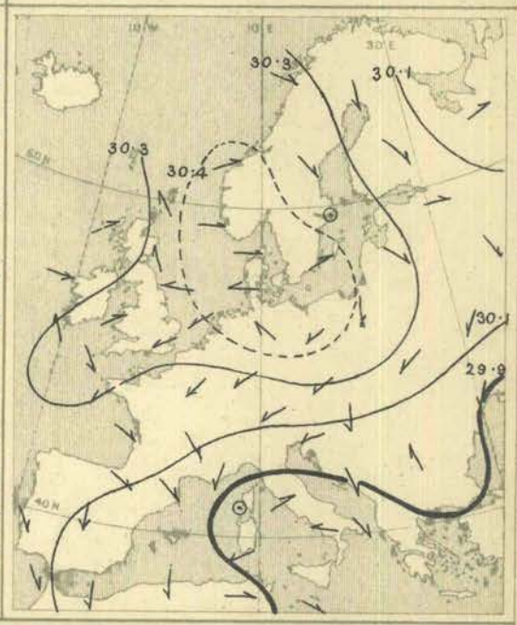
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather fine over the greater part of our Islands and the Continent, but dull in the west of Ireland, with rain at Valencia Island. Dull also in Austria and the south of Russia, and rainy at several of the Algerian stations. Rain falling later in nearly all the more western and northern parts of the United Kingdom, lunar halos seen in the south of England; thunderstorm occurring in the south of France in evening and showers over some parts of Austria and southern Russia.

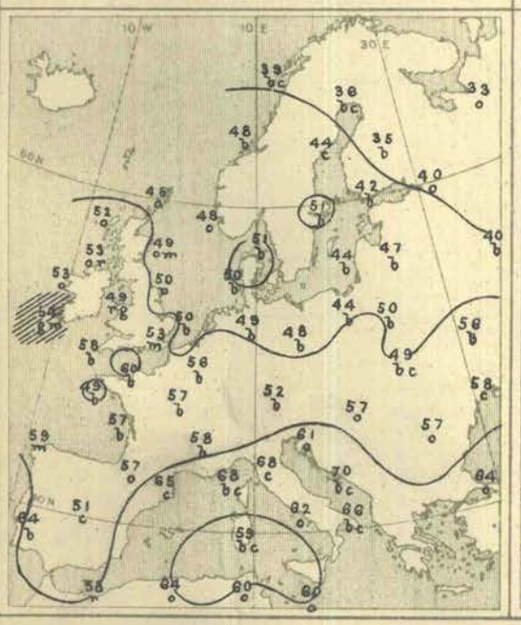
Temperature highest, 73° at Barcelona, 68° at Palermo, 67° at Trieste and Nicolaieff, 66° at Nice, and 65° at Kharkov and Oran; above 60° in most parts of southern and eastern Europe, and just reaching that point at Scilly. Lowest, 32° at Archangel, 36° at Haparanda, 37° at Kuopio, and 40° at Bodö and St. Petersburg; below 45° over the northern parts of Russia and Scandinavia generally, as well as on the north-east coasts of Great Britain. Rising during day to between 65° and 70° in many parts of the United Kingdom, and reaching 71° in London. Exceeding 70° at most of the French, Austrian, and Italian stations (77° at Paris and 78° at Charleville), but failing to reach 70° in Algeria.

Wind light or moderate from North-East over England, Germany, the Netherlands, and the greater part of France, Spain, and Italy; light from the Southward in Ireland and Scotland, moderate to strong from the South-Westward over the northern parts of Scandinavia, variable in the south of Scandinavia, light from the Northward over Russia and Austria. No very decided change during day, but Southerly winds setting in over the northern parts of England, and strong South-Westerly over Lapland.

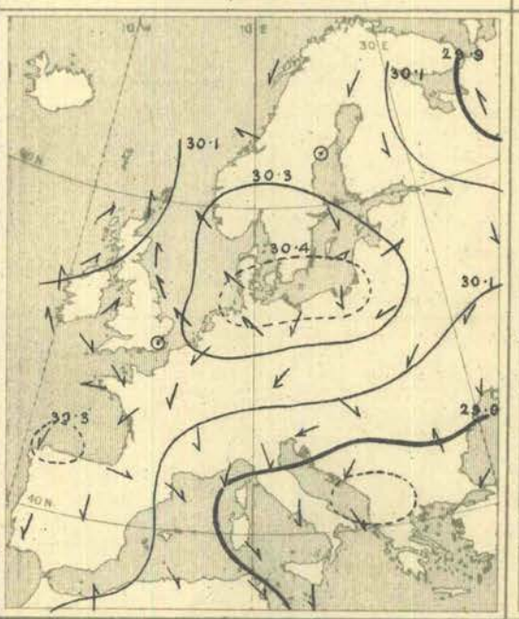
Barometer highest, 30·5 ins. in an anticyclonic area lying over Denmark, the North Sea, and the southern parts of Scandinavia, and stretching westwards to our Islands. Lowest, 29·8 ins. and less in two shallow depressions lying—one over the extreme south of Russia, and the other over the central and southern parts of the Mediterranean. Gradual fall of barometer taking place over our Islands and northern Europe during day, and shallow depressions beginning to appear off our extreme north-west coasts.

Friday, 13th May.

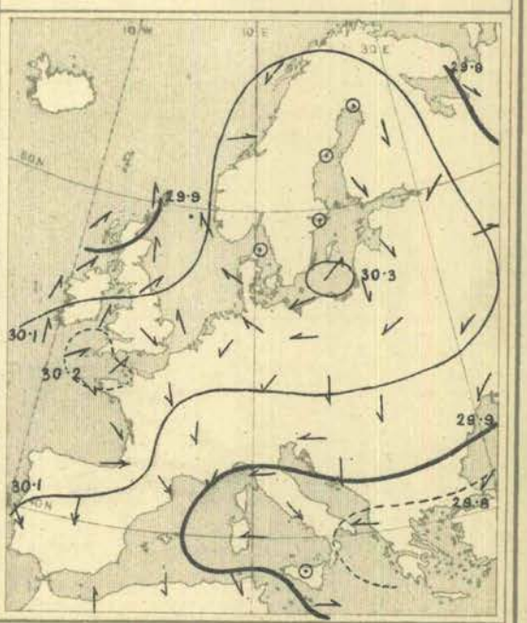
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over Scandinavia, central Europe, France, and Spain, dull over south-eastern Europe and Algeria; unsettled over our Islands, and raining at our western and northern stations. Rain falling in the United Kingdom later, except over the south-western and southern parts of England, but amounts very small over our eastern counties: some fall at Christiansund also, and a considerable fall over northern Italy.

Temperature in morning exceeding 60° at nearly all the Mediterranean stations, and exceeding 70° at Barcelona, Cape Sicié, and Lésina; below 60° (but above 50°) over nearly the whole of our Islands, France, western and southern Germany, lower elsewhere. Lowest, 33° at Archangel, 35° at Kuopio, 36° at Haparanda and Uleaborg, 45° at Sumburgh Head, 48° at Spurn Head. Rising later to between 60° and 69° in most parts of our Islands, to 70° and more over France and at Lisbon.

Wind still Northerly to Westerly, and light, over northern Europe, Northerly to North-Easterly in the south-east, North-Easterly, moderate, over Germany, France, and Spain—but variable locally. Very light and variable over England, but Southerly to South-Westerly, moderate, in Ireland and Scotland. The Southerly current in west and north spreading eastwards and southwards very slowly during day, and reaching London late in evening.

Barometer highest, 30·4 ins. and more to 30·2 ins. in an anticyclone over north Germany, the Baltic, and the greater part of the North Sea, and exceeding 30·2 ins. over England, the English and St. George's Channels, and the Bay of Biscay. Lowest, 30·1 ins. and less off our north-western coasts, 29·9 ins. and less over the north of Russia, and 29·7 ins. and less in a shallow disturbance over south-eastern Europe and Italy. Falling steadily over our Islands and north-western Europe during day; distribution becoming more generally cyclonic, and somewhat complex in those regions.

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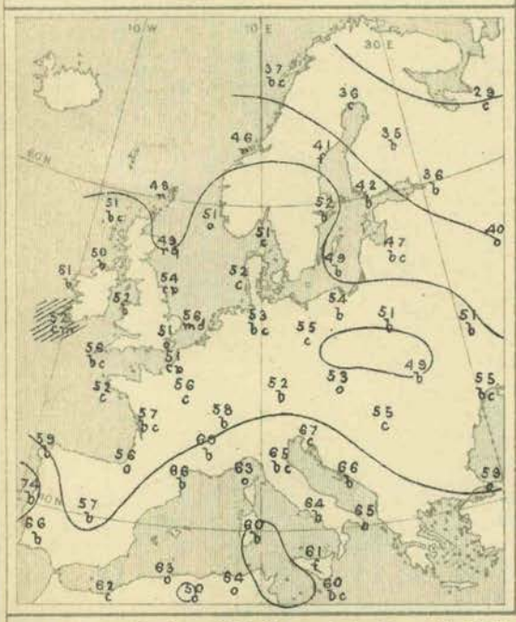
III.—SUMMARY OF WEATHER OVER EUROPE.

Saturday, 14th May.

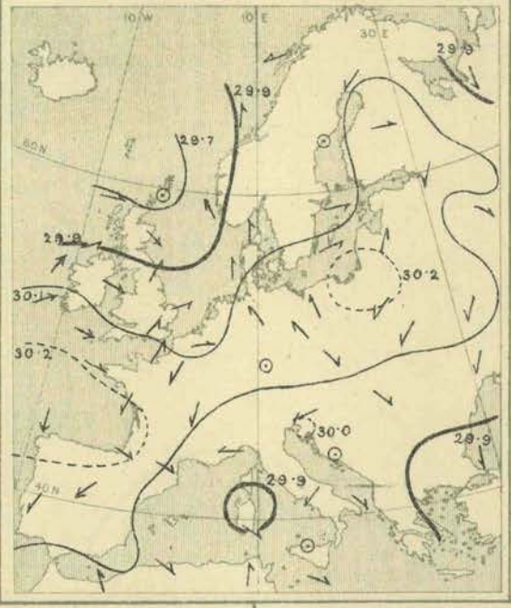
Temperature and Weather.

8 a.m.



Barometer and Wind.

8 a.m.



6 p.m.

Weather in morning fine and bright over Spain, France, the Mediterranean, Austria, Poland, and the greater part of Russia; cloudy or overcast elsewhere. Unsettled over the British Islands and north-western Europe, with showers in many parts of Great Britain and Norway. Rain at times later in many parts of our Islands, the Netherlands, and Scandinavia, but amounts small at our own stations; some showers in the north of Russia also.

Temperature in morning considerably above 70° at Oporto and Barcelona, and above 60° over the Mediterranean and southern Europe generally; above 50° over the British Islands, France, western and southern Germany; lower elsewhere. Lowest, 29° at Archangel, 35° at Kuopio, 36° at St. Petersburg and Haparanda, 37° at Bodö. Rising later to between 60° and 66° in many parts of Great Britain, to between 70° and 80° over the west and south of France, and to 80° and more at some Spanish and Portuguese stations; not much exceeding 70° over Algeria.

Wind moderate to fresh from between South-West and North-West over the United Kingdom, Southerly to South-Easterly over Norway, Denmark, and north Germany, North-Westerly in the north of Russia; very variable elsewhere. Not much change reported later.

Barometer highest, 30·2 ins. and more to 30·1 ins. in an anticyclone spreading in from the Atlantic over western Europe, and also in a very long ridge extending thence across France, Germany, and the southern parts of the Baltic to northern Russia. Lowest, 29·7 ins. and less in a depression off the north of Scotland, and 29·9 ins. and less in two others—one over Asia Minor, the other over the Mediterranean. Changing irregularly in our Islands later, but tending to decrease as a whole.

GENERAL NOTES.

At the commencement of this week an elongated high-pressure system stretched from the Atlantic, across France and Germany, to central Russia. In it pressure exceeded 30·2 ins., but to the northward it decreased to 29·5 ins. and less over Finmark, and to the southward to 29·2 ins. and less over Greece. During Monday and Tuesday the system moved northwards, increased in intensity, and underwent considerable modifications in shape. Northerly and North-Easterly winds became prevalent over central Europe and the south of the British Islands, while the South-Westerly current, which had previously been blowing over northern Europe, disappeared. On Thursday another change set in; the anticyclone began to move south-eastwards again, and to decrease in intensity, and, becoming united with a new system which spread in over the Bay of Biscay and France, formed a very complex anticyclone, which on Saturday stretched from the Atlantic, across France and Germany, to Russia. Westerly winds reappeared in the north and north-west, the North-Easterly wind in the south backed to North-West and died down, and variable airs became very prevalent.

BRIGHT SUNSHINE Values for the Week in addition to those found on page 110.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	42·8	?	39	?	EASTBOURNE	67·1	?	63	?
OSWALDKIRK (Yorkshire)	57·1	?	52	?	TENBY	68·1	?	64	?
WORKSOP	50·9	+12·2	47	+12	NEWQUAY	75·0	?	71	?
THURCASTON (Leicestershire)	56·8	+19·6	52	+16	TORQUAY	76·1 *	?	72 *	?
MARGATE	55·4	?	52	?	ARLEY COTTAGE (County Cavan)	47·7	?	44	?
WESTBOURNE (Sussex)	71·5 *	?	67 *	?	GUERNSEY	80·9	?	78	?
BRIGHTON	63·4	?	60	?					

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

Date of Report.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each Day.	Of Lowest each Day.	For whole of each Day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
February 13th, 1892.	Guernsey	—	—	—	—	—	—	—	—	—	—	—	6·2	?	9	?
„ 20th, „	Guernsey	—	—	—	—	—	—	—	—	—	—	—	17·2	?	24	?
„ 27th, „	Sumburgh Head	43	27	41·9	35·4	38·7	+0·4	0	23	6	1·21	+0·43	—	—	—	—
„ „ „	Guernsey	—	—	—	—	—	—	—	—	—	—	—	29·5	?	40	?
March 12th, „	Llandudno	41	25	38·4	29·0	33·6	−9·1	0	59	4	0·28	−0·19	18·7	− 1·4	24	− 1
„ 19th, „	Blackpool	62	25	49·1	34·4	41·5	+0·6	20	30	3	0·37	−0·13	20·8	− 0·2	25	− 1
„ „ „	Llandudno	63	27	49·4	37·7	43·3	+0·5	27	12	3	0·64	+0·19	29·7	+ 8·5	36	+11
„ 26th, „	Cambridge	—	—	—	—	—	—	—	—	—	—	—	18·7	−11·3	27	− 6
„ „ „	Llandudno	51	33	47·6	35·8	41·5	−2·4	16	24	2	0·10	−0·35	30·7	+ 8·0	36	+10
„ „ „	Oswaldkirk	—	—	—	—	—	—	—	—	—	—	—	46·6	?	54	?
April 2nd, „	Llandudno	64	28	49·4	33·1	41·0	−3·7	35	21	2	0·11	−0·33	53·1	+28·2	60	+32
„ 9th, „	Scarborough	67	39	53·9	41·6	47·5	+4·3	40	1	1	0·01	−0·44	—	—	—	—
„ „ „	Blackpool	61	31	47·9	42·1	43·6	+6·8	53	0	2	0·13	−0·27	34·9	+ 5·7	38	+ 7
„ „ „	Llandudno	70	38	58·7	43·3	50·8	+5·4	62	0	1	0·03	−0·41	38·9	+11·2	42	+13
„ „ „	Torquay	—	—	—	—	—	—	—	—	—	—	—	75·8	?	82	?

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.
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VOL. IX. No. 20.] *Third Series.* WEEK ENDING SATURDAY, 21ST MAY, 1892. [*Price 6d.* [*Annual subscription post paid, £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years' observations (1871-90). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the ten years 1881-90. RAINFALL.—*The Mean amounts* are those for the corresponding periods in the twenty-five years 1856-90, but the *Mean numbers of Rainy Days* are those for the ten years 1881-90, only. BRIGHT SUNSHINE.—*The Mean values* employed are those for the corresponding periods in the ten years 1881-90.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

DISTRICTS. (See p. 116.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1892. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts. 0. SCOTLAND, NORTH	58	30	50·9	39·4	44·8	3 below.	31	−14	7	+ 2	290	+ 1	748	+211
1. SCOTLAND, EAST	64	31	55·4	40·7	47·6	1 below.	45	−13	4	0	378	−22	835	+238
2. ENGLAND, N.E.	62	33	56·9	42·7	49·4	0 (average)	52	− ·	0	− 3	354	−25	684	+186
3. ENGLAND, EAST	64	37	59·7	43·6	51·2	0 (average)	64	− 9	0	− 3	445	−46	768	+208
4. MIDLAND COUNTIES	64	35	59·2	43·7	51·0	0 (average)	63	− 9	0	− 3	521*	+ 1	796	+246
5. ENGLAND, SOUTH	67	37	60·1	45·2	52·3	0 (average)	72	− 5	0	− 1	523	−36	554	+138
Principal Grazing, &c., Districts. 6. SCOTLAND, WEST	62	37	55·7	43·1	49·1	1 below.	50	−11	0	− 2	414	+ 5	609	+193
7. ENGLAND, N.W.	59	34	54·8	45·0	49·6	1 below.	53	−12	0	− 1	400	−23	580	+166
8. ENGLAND, S.W.	64	35	57·3	44·7	51·1	0 (average)	64	− 5	0	− 1	558	+13	433	+117
9. IRELAND, NORTH	60	34	55·1	44·9	49·8	1 below.	55	− 8	0	− 1	476	−19	484	+122
10. IRELAND, SOUTH	64	38	58·7	47·6	52·8	1 above.	76	+ 7	0	0	601	−15	410	+133
— CHANNEL ISLANDS	61	45	57·8	48·7	53·0	0 (average)	77	+ 1	0	0	620	−23	164	+ 42

Rainfall.

DISTRICTS. (See p. 116.)	For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1892. Number of Rainy Days.	Difference from Mean.	Total Fall.	Difference from Mean.
		10ths of In.	10ths of In.			Ins.	Ins.
Principal Wheat-producing Districts. 0. SCOTLAND, NORTH	7	14	8 more.	94	− 1	15·5	− 2·5
1. SCOTLAND, EAST	7	8	3 more.	68	− 8	7·4	− 3·5
2. ENGLAND, N.E.	6	4	0 (average)	71	0	6·5	− 2·1
3. ENGLAND, EAST	5	3	1 less.	71	+ 1	6·4	− 2·0
4. MIDLAND COUNTIES	5	3	2 less.	61	− 6	6·0	− 3·6
5. ENGLAND, SOUTH	2	1	4 less.	52	−15	4·9	− 4·9
Principal Grazing, &c., Districts. 6. SCOTLAND, WEST	7	15	9 more.	71	−10	11·8	− 6·6
7. ENGLAND, N.W.	6	12	7 more.	70	− 4	9·8	− 1·4
8. ENGLAND S.W.	4	3	2 less.	66	− 9	8·4	− 6·0
9. IRELAND, NORTH	6	11	6 more.	74	−12	9·3	− 3·2
10. IRELAND, SOUTH	4	3	3 less.	68	−12	10·1	− 4·6
— CHANNEL ISLANDS	2	less than ½	4 less.	70	−12	9·1	− 2·8

Bright Sunshine.

DISTRICTS. (See p. 116.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1892. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts. 0. SCOTLAND, NORTH	30	− 1	26	− 2	504	+ 72	31	+ 4
1. SCOTLAND, EAST	36	− 1	32	− 1	565	+ 85	35	+ 5
2. ENGLAND, N.E.	35	− 8	31	− 6	552	+124	34	+ 7
3. ENGLAND, EAST	38	−11	34	−10	565	+ 55	35	+ 3
4. MIDLAND COUNTIES	38	− 4	35	− 3	568*	+114	35	+ 6
5. ENGLAND, SOUTH	43	− 2	40	− 3	621	+139	38	+ 8
Principal Grazing, &c., Districts. 6. SCOTLAND, WEST	42	− 3	38	− 1	581	+121	36	+ 7
7. ENGLAND, N.W.	30	−15	27	−13	592	+141	37	+ 9
8. ENGLAND S.W.	43	− 5	40	− 4	703	+153	43	+ 9
9. IRELAND, NORTH	29	−13	26	−12	519	+ 61	32	+ 3
10. IRELAND, SOUTH	32	−13	29	−13	593	+ 60	37	+ 4
— CHANNEL ISLANDS	64	+ 2	61	+ 2	721	+ 68	44	+ 4

Bright Sunshine.—For several of the stations there are no "mean" values available, and the "difference from the mean" in some of the districts is consequently that of only a few of the stations.

General Remarks.

Weather during this period was unsettled in the extreme north and north-west, with frequent and rather heavy falls of rain. In the more southern and south-eastern districts, however, the conditions remained generally fair, although more cloud prevailed than of late and some slight showers occurred from time to time.

Temperature was a little below the mean in Scotland, as well as in England N.W. and Ireland N.; in nearly all other parts of the Kingdom it just equalled the normal value. The highest of the maxima, which were recorded on somewhat irregular dates, ranged from 67° in England S., to 59° in England N.W., and to 58° in Scotland N. The lowest of the minima were registered on the 15th at most of the English and Irish stations, and on the 18th or 21st in Scotland. They ranged from 30° in Scotland N. and 31° in Scotland E., to 38° in Ireland S., and to 45° in the Channel Islands.

Rainfall was again less than the mean over most parts of England, and also in the Channel Islands and Ireland S.; in Scotland, England N.W., and Ireland N., however, there was a considerable excess.

Bright Sunshine was less prevalent than of late, and was below the mean for the time of year in all districts, except the Channel Islands. The percentage of the possible duration ranged from 26 in Scotland N. and Ireland N., 27 in England N.W., and 29 in Ireland S., to 40 in England S. and S.W., and to 61 in the Channel Islands.

Barometer and Wind.—The distribution of barometric pressure during this period was of a westerly or south-westerly type, the barometer being highest in the south or south-west, while several depressions passed north-eastwards or eastwards over our extreme northern districts. Most of the disturbances were rather shallow and caused no great increase of wind on our coasts, but on the 16th a fresh gale was experienced for a time in the neighbourhood of Liverpool, and on the 19th and 20th a similar gale was reported on the south and east coasts of Kent.

* This value has been altered owing to the receipt of further information.

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II. DATA from which the SUMMARY on page 115 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head ℌ	52	34	47·4	38·1	42·5	− 2·7	20	11	5	0·47	+0·08	*	*	*	*
	Stornoway	55	35	51·0	40·1	45·2	− 1·9	30	5	7	0·65	+0·05	41·0	− 0·9	35	− 2
	Wick	58	30	50·7	38·4	44·2	− 3·0	31	10	6	0·71	+0·35	*	*	*	*
	Lairg ℌ	56	30	51·4	36·6	43·6	− 4·4	34	15	7	1·37	+0·88	*	*	*	*
	Glencarron ℌ	53	36	50·4	39·9	44·8	− 2·7	28	6	7	2·75	+1·68	*	*	*	*
	Fort Augustus ℌ	56	33	52·1	40·7	46·1	− 2·3	34	4	7	1·77	+1·32	22·7	?	20	?
	Fort William ℌ	57	38	53·5	42·1	47·5	− 1·9	39	0	7	2·34	+1·52	25·9	?	23	?
1. SCOTLAND, E.	Nairn	60	33	53·0	39·1	45·6	− 3·6	37	8	6	0·92	+0·54	*	*	*	*
	Aberdeen	64	34	54·6	41·3	47·6	− 0·8	42	2	7	0·90	+0·45	42·4	− 1·6	37	− 1
	Braemar ℌ									7	0·61	+0·11	40·4†	?†	35†	?†
	Ochtertyre ℌ	63	31	59·1	39·4	48·7	+ 0·4	58	7	6	0·93	+0·37	*	*	*	*
	Leith	60	38	57·3	43·9	50·2	+ 0·3	57	0	6	0·69	+0·31	*	*	*	*
	Marchmont ℌ	59	32	53·0	39·9	46·1	− 1·7	38	6	7	0·74	+0·22	32·5	?	29	?
2. ENGLAND, N.E.	Alnwick Castle	59	35	55·7	42·6	48·8	+ 1·2	48	0	7	0·40	−0·08	*	*	*	*
	Durham	61	33	58·0	39·5	48·2	− 0·4	51	7	6	0·35	−0·10	32·6	− 7·7	29	− 7
	Shields	61	34	57·4	41·0	48·7	+ 0·1	51	3	6	0·42	+0·03	*	*	*	*
	Scarborough ℌ	61	38	57·1	43·2	50·1	+ 0·6	57	0	6	0·40	−0·05	*	*	*	*
	York	60	37	57·6	44·3	50·6	0·0	60	0	6	0·44	0·00	36·4	− 5·9	33	− 5
	Spurn Head	59	41	55·4	44·9	49·8	+ 0·1	55	0	6	0·35	0·00	*	*	*	*
3. ENGLAND, E.	Hillington ℌ	64	37	59·2	42·4	50·3	− 0·3	58	0	6	0·48	+0·06	36·3	−11·6	33	−10
	Yarmouth	59	42	57·4	45·1	50·9	+ 0·8	62	0	5	0·29	−0·13	*	*	*	*
	Geldeston	62	40	60·2	44·0	51·6	+ 0·6	67	0	6	0·45	+0·06	42·5	− 9·5	39	− 9
	Cambridge	63	37	61·1	42·7	51·4	− 0·7	66	0	5	0·13	−0·32	31·4	−14·0	29	−12
	Rothamsted	64	38	60·7	43·7	51·7	+ 1·1	68	0	4	0·12	−0·38	40·1	?	36	?
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	61	37	57·9	40·4	48·6	− 2·6	53	4	6	0·42	−0·06	*	*	*	*
	Loughborough	63	39	60·6	46·0	52·9	+ 0·9	76	0	5	0·34	−0·14	*	*	*	*
	Stamford (Ketton Hall)	63	36	60·7	43·1	51·4	− 0·8	66	0	7	0·29	−0·23	*	*	*	*
	Cheadle ℌ	59	40	56·0	43·2	49·2	0·0	60	0	6	0·85	+0·30	*	*	*	*
	Churchstoke ℌ	59	35	57·5	43·0	49·8	+ 0·6	55	0	4	0·32	−0·18	38·6	− 4·2	35	− 4
	Hereford ℌ	64	38	61·4	45·2	52·8	+ 0·9	76	0	3	0·06	−0·42	*	*	*	*
	Cirencester	63	35	59·3	43·0	50·7	+ 0·3	61	0	2	0·09	−0·41	41·8	− 3·2	38	− 3
	Oxford	63	41	60·1	45·4	52·3	+ 0·4	72	0	3	0·08	−0·39	44·1	+ 0·2	40	0
5. ENGLAND, S.	London	65	42	62·9	45·1	53·5	+ 0·4	81	0	2	0·06	−0·37	36·4†	− 5·9†	33†	− 6†
	North Foreland	66	45	61·4	46·9	53·7	+ 2·5	82	0	4	0·16	?	*	*	*	*
	Strathfield Turgiss ℌ	67	38	63·0	42·5	52·1	0·0	71	0	3	0·09	−0·31	*	*	*	*
	Dungeness	62	42	57·3	45·9	51·3	− 0·7	65	0	2	0·03	−0·37	*	*	*	*
	Hastings (St. Leonards)	61	42	58·3	45·4	51·5	− 1·2	67	0	0	—	−0·47	52·8	− 1·4	49	− 2
	Southampton	67	42	62·5	45·6	53·5	+ 0·4	81	0	0	—	−0·51	44·9	− 3·1	42	− 2
	Hurst Castle	63	44	57·6	47·0	52·0	− 0·4	70	0	2	0·03	−0·39	*	*	*	*
	Stowell ℌ	61	37	57·8	44·2	50·6	− 0·6	60	0	1	0·09	?	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	62	40	56·4	42·1	48·8	− 1·1	48	0	6	2·29	+1·39	*	*	*	*
	Glasgow	58	38	55·4	42·3	48·6	− 1·2	46	0	7	1·18	+0·63	38·0	+ 2·0	34	+ 2
	Ardrossan	58	42	55·4	45·2	50·1	− 0·2	57	0	7	0·97	+0·43	*	*	*	*
	Glenlee ℌ	59	37	56·2	42·0	48·7	− 0·1	47	0	7	1·89	+1·22	*	*	*	*
	Douglas (Isle of Man)	58	37	55·2	43·6	49·1	− 0·7	50	0	6	1·12	+0·63	46·1	− 4·8	41	− 5
7. ENGLAND, N.W.	Newton Reigny	57	34	54·5	40·7	47·2	− 0·7	42	4	7	1·20	+0·75	23·5	−12·5	21	−11
	Stonyhurst	56	38	55·7	43·5	48·3	− 2·3	44	0	5	2·31	+1·71	34·0	−10·0	30	− 9
	Blackpool ℌ	56	43	52·9	46·9	49·7	− 1·0	54	0	6	1·09	+0·61	35·3	−10·5	32	− 9
	Manchester	58	41	55·8	45·2	50·2	0·0	57	0	6	1·35	+0·78	*	*	*	*
	Liverpool Obsy. (Bidston)	59	45	56·3	47·3	51·5	− 0·2	67	0	6	0·53	+0·10	*	*	*	*
	Llandudno ℌ												27·3	−16·4	25	−15
	Holyhead	57	42	55·3	46·1	50·4	− 0·8	59	0	7	0·43	+0·01	*	*	*	*
8. ENGLAND, S.W.	Llandovery	63	35	59·9	43·7	51·3	+ 0·1	65	0	5	0·65	+0·01	*	*	*	*
	Pembroke	54	43	53·0	47·6	50·1	− 0·6	57	0	5	0·16	−0·29	39·1	− 9·4	36	− 9
	Arlington (N. Devon)	57	37	55·4	43·6	49·2	− 0·5	50	0	5	0·62	−0·05	*	*	*	*
	Cullompton ℌ	64	39	60·1	44·8	52·0	+ 0·6	70	0	3	0·15	−0·33	40·1	− 4·3	37	− 3
	Falmouth	60	46	57·9	47·0	52·1	+ 0·2	71	0	3	0·15	−0·47	47·4	− 1·6	44	− 2
	Plymouth	63	42	58·8	47·0	52·6	− 1·4	74	0	2	0·10	−0·37	44·3	− 2·5	41	− 3
	Prawle Point	60	44	56·0	45·9	50·7	− 0·5	61	0	5	0·20	−0·15	*	*	*	*
9. IRELAND, N.	Malin Head	54	44	52·0	45·6	48·6	− 2·6	46	0	6	1·32	?	*	*	*	*
	Londonderry	?	41	?	44·7	?	?	?	?	7	1·07	+0·54	*	*	*	*
	Mullaghmore	56	43	54·1	46·9	50·3	− 1·4	58	0	6	0·94	+0·36	*	*	*	*
	Belmullet	56	244	53·3	46·6	49·8	− 2·3	55	0	6	1·12	?	*	*	*	*
	Markree Castle	58	34	55·3	43·2	48·9	− 0·4	48	0	7	1·04	+0·58	27·7	−14·5	25	−13
	Brookeborough	58	37	55·6	43·1	49·0	− 0·6	49	0	6	1·48	+0·21	*	*	*	*
	Armagh	60	38	57·4	43·0	49·8	− 0·5	55	0	6	1·05	+0·60	29·5	−12·4	26	−12
	Donaghadee	60	47	57·6	48·6	52·4	+ 2·8	76	0	7	0·79	+0·27	*	*	*	*
	Edgeworthstown	60	36	55·7	42·6	48·8	− 0·9	48	6	7	1·44	+0·87	*	*	*	*
10. IRELAND, S.	Dublin	62	40	59·9	46·7	52·9	+ 1·1	76	0	6	0·58	+0·14	34·8	−13·3	31	−13
	Parsonstown	61	42	59·0	47·3	52·8	+ 1·9	76	0	6	0·49	−0·01	30·9	−11·7	28	−10
	Kilkenny	61	38	59·1	46·0	52·2	+ 0·8	71	0	2	0·17	−0·28	*	*	*	*
	Waterford	64	39	61·2	46·8	53·6	+ 1·6	81	0	2	0·03	−0·50	*	*	*	*
	Roche's Point	60	45	58·9	47·9	53·1	+ 0·4	78	0	2	0·11	−0·59	*	*	*	*
	Valencia	59	47	56·4	48·9	52·4	+ 0·2	73	0	4	0·24	−0·46	29·7	−18·0	27	−17
	Killarney	61	41	58·2	47·5	52·5	+ 1·1	74	0	4	0·28	?	*	*	*	*
	Foynes	59	45	56·6	49·7	52·9	+ 1·4	76	0	6	0·48	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	61	48	57·6	49·3	53·2	+ 0·9	78	0	1	0·05	−0·35	*	*	*	*
	Jersey	59	45	57·9	48·0	52·7	− 0·7	75	0	2	0·03	−0·39	56·8	+ 1·5	54	+ 2

Stations marked ℌ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

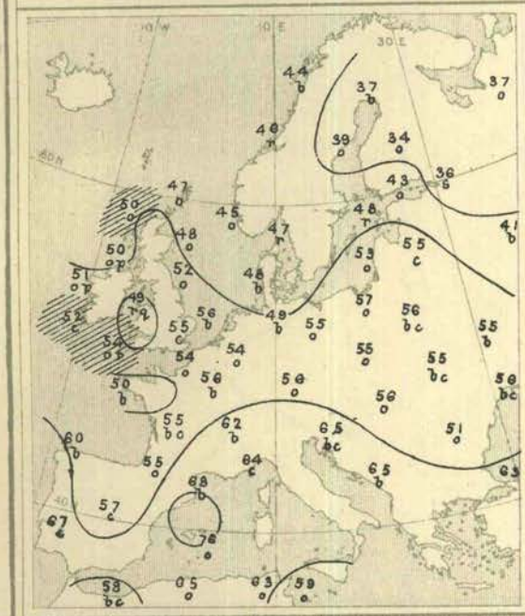
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory and the Meteorological Office, Victoria Street. For additional Reports of Sunshine see last page.

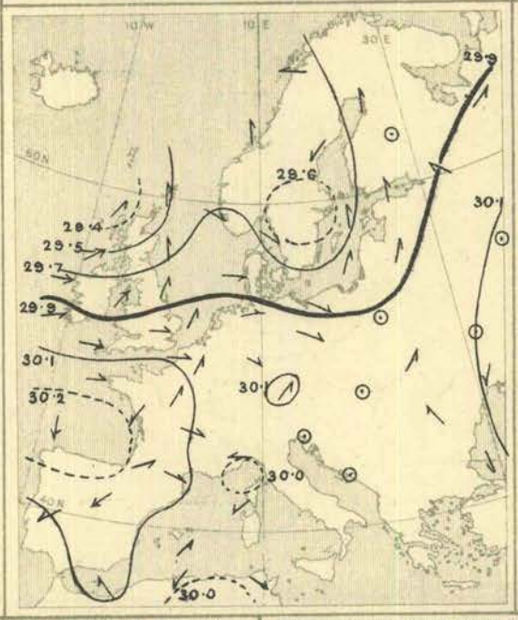
III.—SUMMARY OF WEATHER OVER EUROPE.

Sunday, 15th May.

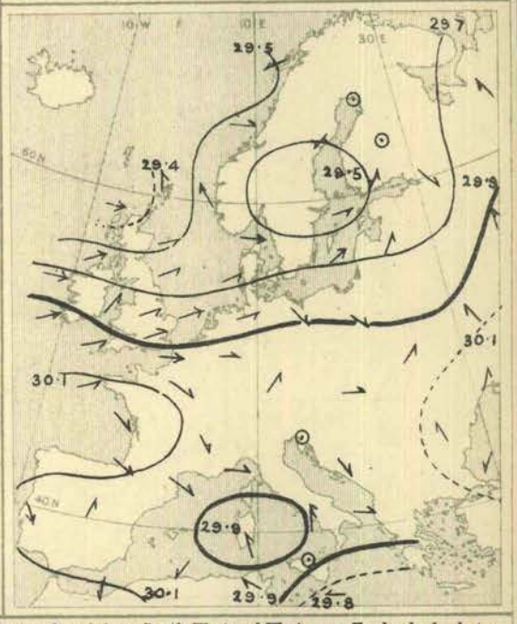
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning rather cloudy and changeable over northern and north-western Europe, the Baltic, and the British Islands, with rain at several of the Scandinavian stations and in the south-west of England, showers in the north-west of Ireland, snow at St. Petersburg. Fine and bright over the greater part of France, over central and southern Russia, Poland, and the east of Austria. Showers at times later in all parts of our Islands, and larger quantities of rain on our north-west coasts. Weather remaining fine over France, but rain falling in Scandinavia and northern Russia.

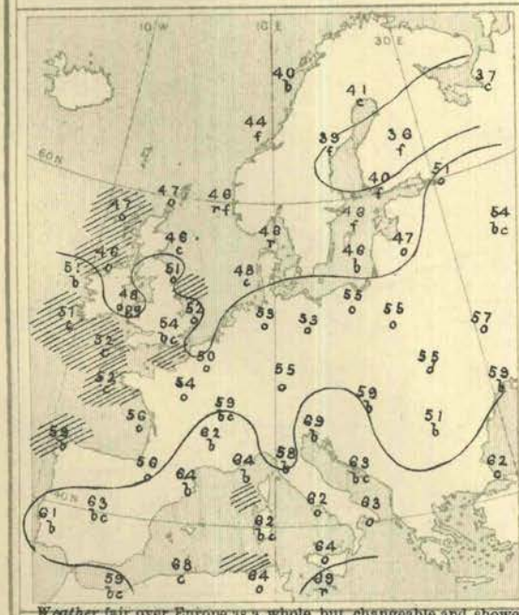
Temperature highest, 70° and more at some Spanish stations, 60° and more on many parts of the Mediterranean coasts, and exceeding 50° over the British Islands, France, Germany, Austria, and southern Russia; lower elsewhere. Lowest, 34° at Kuopio, 36° at St. Petersburg, 37° at Archangel and Haparanda, 39° at Hernösand. Rising later to a little above 60° in several parts of our Islands, to a little higher over Germany, and to between 70° and 80° over southern Europe and Algeria; highest readings of all, 82° at Oporto and Florence and 81° at Barcelona and Lisbon.

Wind moderate from South in Scotland, and from South-West and West over England; fresh to strong from the Westward in Ireland. Moderate Westerly over Denmark and north Germany, Southerly over the Baltic and Finland. Very variable and light elsewhere; North-Easterly over the southern half of the Iberian Peninsula. Becoming more Westerly over England later and freshening; no important change occurring on Continent.

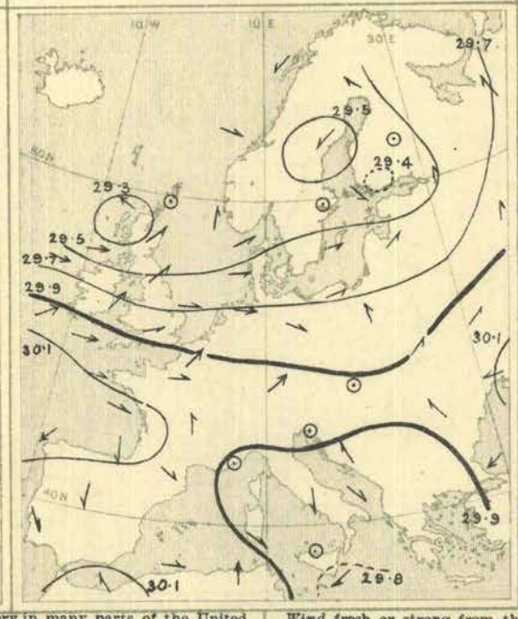
Barometer highest, (1) 30·2 ins. and more to 30·1 ins. over the Bay of Biscay, the Peninsula, and west of France; (2) 30·1 ins. and more over central and southern Russia; (3) 30·0 ins. and more over central Europe generally. Lowest, 29·4 ins. and less off the north-west of Scotland, and below 29·6 ins. over the southern parts of Norway; rather below 30·0 ins. between Toulon and Corsica. Changing little over the west and north of our Islands later, but depression in north-west spreading south-eastwards. Shallow cyclonic disturbance appearing over the central parts of the Mediterranean.

Monday, 16th May.

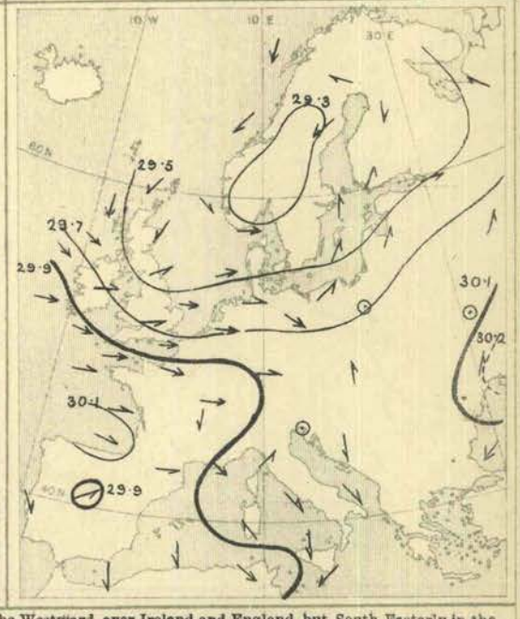
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather fair over Europe as a whole, but changeable and showery in many parts of the United Kingdom. Foggy in Scandinavia and Finland, and dull at the German and Danish stations, with rain in several places. Showers falling during day in almost all parts of our Islands, but amount of rain inappreciable in the south. Thunderstorms occurring at Hamburg and Breslau; slight rain falling over northern Russia.

Temperature highest, 69° at Trieste, 68° at Barcelona, Oran, and Algiers, 67° at Leghorn, and 66° at San Fernando; above 60° in most parts of southern Europe. Lowest, 36° at Kuopio, 37° at Archangel, 39° at Hernösand, and 40° at Bodö, Uleaborg, and Hangö; below 45° over the northern parts of Russia and Scandinavia generally, and also over central Scotland. Rising during day to 60° or a little more in some parts of eastern and south-eastern England, to 70° or more in the south of France, and to 75° or more in many parts of Spain, Italy, and Algeria; highest readings of all, 82° at Florence and 81° at San Fernando.

Wind fresh or strong from the Westward over Ireland and England, but South-Easterly in the north of Scotland. Light or moderate from West or South-West over Denmark, Germany, the Baltic, and the south of Scandinavia; light from the Southward in Russia; Easterly or North-Easterly in the northern parts of Scandinavia. Light from North-West in the west and south of France, and also in Italy; variable in Spain and Austria; Southerly or South-Easterly in Algeria. Subsequently shifting to the Northward in Scotland, and veering to the North-Westward on many parts of our west coasts. Well-marked cyclonic circulation appearing over Scandinavia, Denmark, and northern Russia.

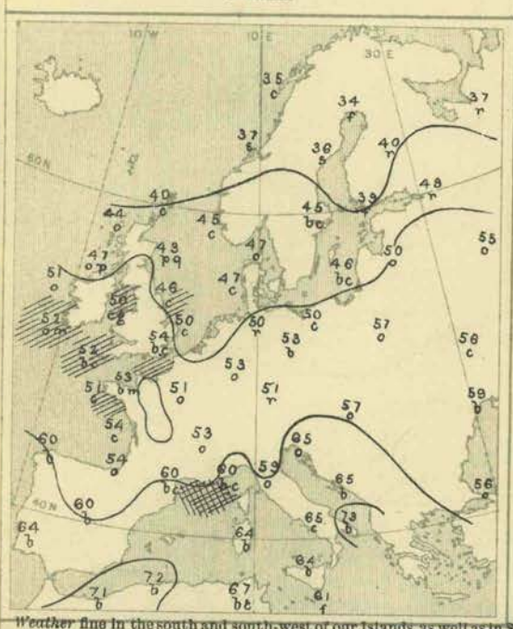
Barometer highest, 30·1 ins. to 30·2 ins. in an anticyclone lying over the Bay of Biscay and the adjacent parts of France and Spain; 30·1 ins. and upwards in another system lying over the south of Russia. Lowest, 29·3 ins. and less in a well-marked depression over Scotland; 29·5 ins. and less in a shallow area stretching eastwards over the North Sea, Scandinavia, and Finland; 29·8 ins. and less in a depression lying to the southward of Italy. Scotch depression subsequently travelling eastwards to the North Sea, and barometer rising briskly on our extreme northern and north-western coasts.

Judd & Co. Lith., Lith. 63, Carter Lane, Doctors' Commons.

III.—SUMMARY OF WEATHER OVER EUROPE.

Tuesday, 17th May.

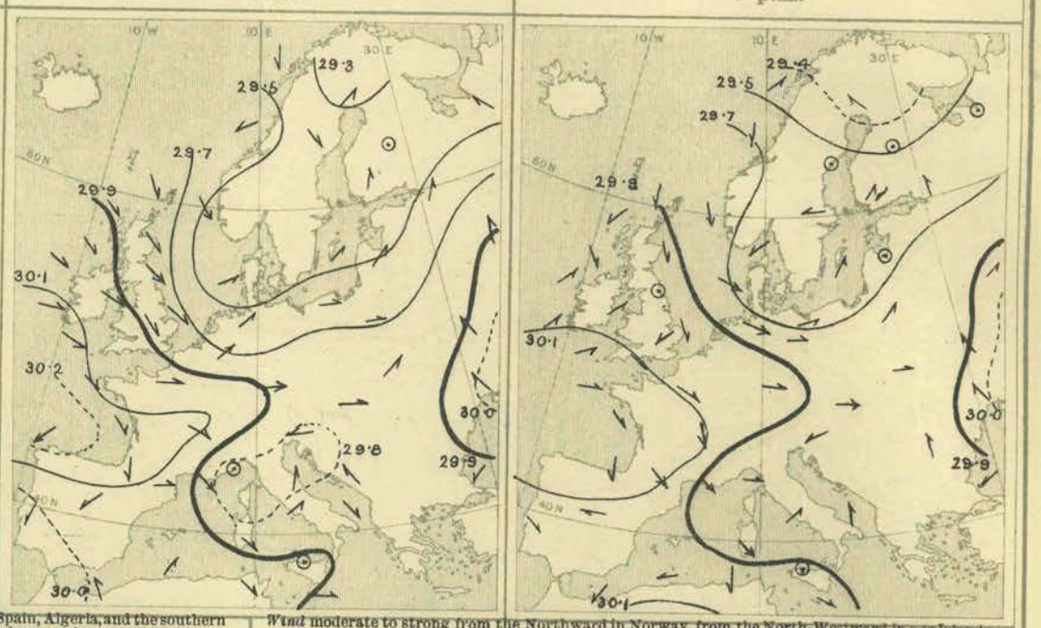
Temperature and Weather. 8 a.m.



Weather fine in the south and south-west of our Islands, as well as in Spain, Algeria, and the southern parts of France, Italy, and Russia. Cloudy and unsettled elsewhere, with passing showers in the north and east of the United Kingdom, with rain over northern Russia and some parts of Denmark and Germany, and with snow at Hernösand and Christiansund. Fog reported over the Gulf of Finland, and also at Haparanda. Rain setting in at night over the western parts of our Islands, and slight showers falling in many other districts. Thunderstorms occurring at Nice, Berlin, and Hamburg.

Temperature highest, 73° at Brindisi, 72° at Oporto and Algiers, 71° at Nemours, 70° at Oran, and 68° at San Fernando; exceeding 60° in most parts of southern Europe, and exceeding 55° in the south of Russia. Lowest, 34° at Haparanda, 35° at Bodö, 36° at Hernösand, and 37° at Archangel and Christiansund; below 40° in the northern parts of Russia and Scandinavia generally, and below 45° in the north and east of Scotland. Rising during day to between 60° and 62° over the southern parts of the United Kingdom, to 65° or more in the south of France, and to 75° or more in many parts of Spain and Italy. Frost occuring in the extreme north of Scotland at night.

Barometer and Wind. 8 a.m. and 6 p.m.

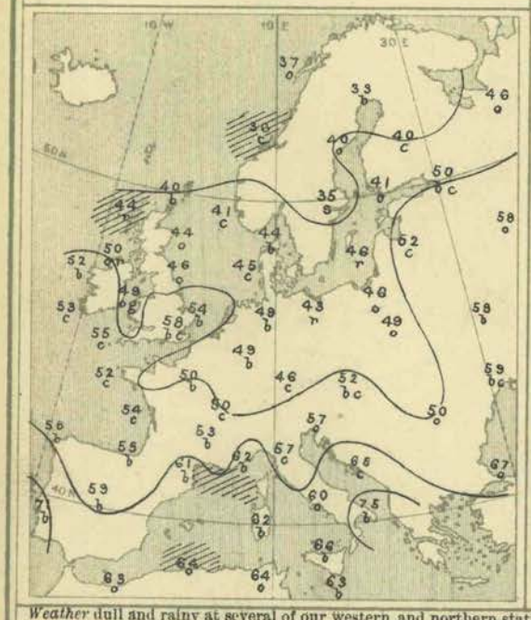


Wind moderate to strong from the Northward in Norway, from the North-Westward in our Islands and France, and from the South-Westward over Germany, Denmark, and the Baltic; light from the Southward over the greater part of Russia. Light and variable in Italy, Austria, and Algeria; North-Easterly in Spain. Subsequently falling light over the United Kingdom; backing to the South-Westward on our west coasts, and shifting temporarily to the Eastward in the south-east of England, as well as at some of our north-western stations.

Barometer highest, 30·1 ins. to 30·2 ins. in an anticyclone spreading in from the Atlantic, over the extreme south-west of Ireland, the Bay of Biscay, the north of Spain, and the southern parts of France, as well as in another system lying over the south of Russia. Lowest, 29·3 ins. and less in a depression over the north of Scandinavia, and below 29·35 ins. in another disturbance lying off the south of Norway; 29·8 ins. and less in two other systems, lying respectively over the Gulf of Genoa and the northern parts of the Adriatic. Depression off the Norwegian coasts subsequently travelling eastwards to the south of Sweden; new disturbance approaching the west of our Islands at night.

Wednesday, 18th May.

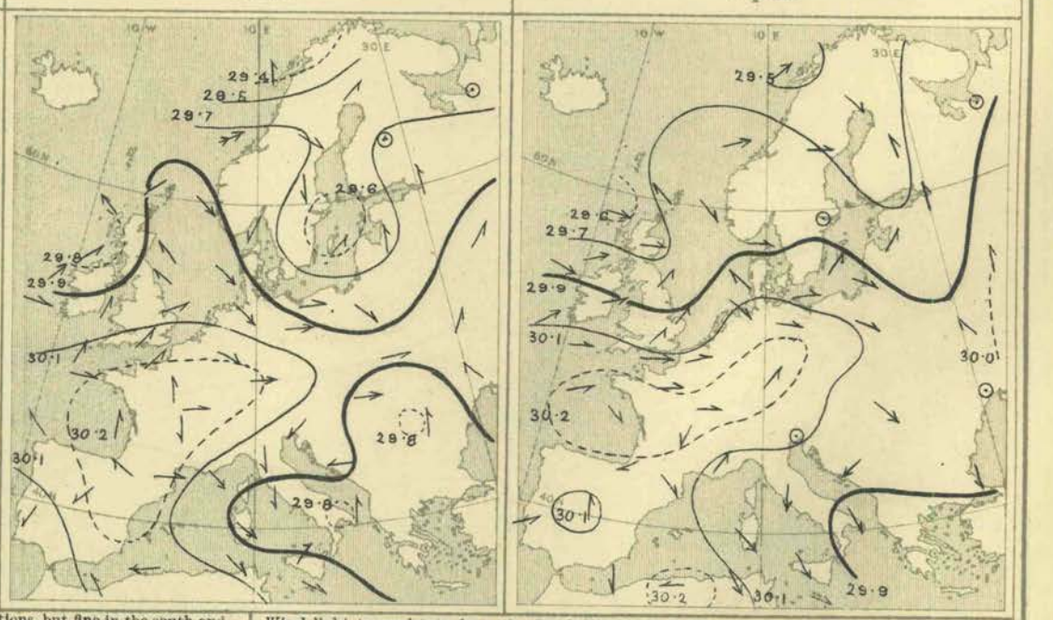
Temperature and Weather. 8 a.m.



Weather dull and rainy at several of our western and northern stations, but fine in the south and south-east of our Islands, as well as in Germany, France, Spain, Algeria, and the south of Italy. Dull over the greater part of Scandinavia, Russia, and Austria, with rain and snow in the south of Sweden. A little rain falling later in the southern parts of the United Kingdom, and larger amounts in the west of Norway, with snow at Christiansund. A thunderstorm occurring at Belmullet and thunder only at Jersey; bright aurora seen at night in some parts of Ireland and Scotland.

Temperature highest, 77° at Oporto, 75° at Brindisi, 71° at Lisbon, 70° at Oran, and 66° at Palermo; above 60° at most of the Mediterranean and Adriatic stations, and above 55° over the central and southern parts of Russia. Lowest, 38° at Haparanda, 35° at Stockholm, 36° at Christiansund, 37° at Bodö, and 40° at Kuopio and Sumburgh Head; below 45° over Scandinavia and Finland generally, and also in the north and east of Scotland. Rising later to 66° or a little above at some of our own southern stations, to 70° or more in the west of France and in Italy, and to 80° and upwards in Spain and the south of France. Exceeding 90° in central Algeria.

Barometer and Wind. 8 a.m. and 6 p.m.



Wind light or moderate from the South-Westward in the western and southern parts of the United Kingdom, but Southerly in the north and north-east. Fresh or strong from the North-Westward on the eastern shores of the North Sea, moderate to fresh from the Westward in Germany and Austria, light from the Southward in Russia, variable in France, Easterly in Spain, and also in northern Italy. North-Westerly over the central parts of the Mediterranean. Subsequently shifting to the Westward in all the more western and northern parts of our Islands. Becoming very variable on the eastern shores of the North Sea.

Barometer highest, 30·2 ins. and upwards in an anticyclone lying over western Germany, France, and the eastern parts of Spain; 30·0 ins. and upwards over central and southern Russia. Lowest, 29·6 ins. and less in a depression lying over the Baltic; 29·8 ins. and less in another disturbance off the west of Scotland; 29·9 ins. and less in a large shallow area covering Italy and the greater part of south-eastern Europe. Depression off the Scotch coast subsequently spreading eastwards and south-eastwards, but barometer rising again in the west of our Islands. Baltic depression moving northwards and partially filling up.

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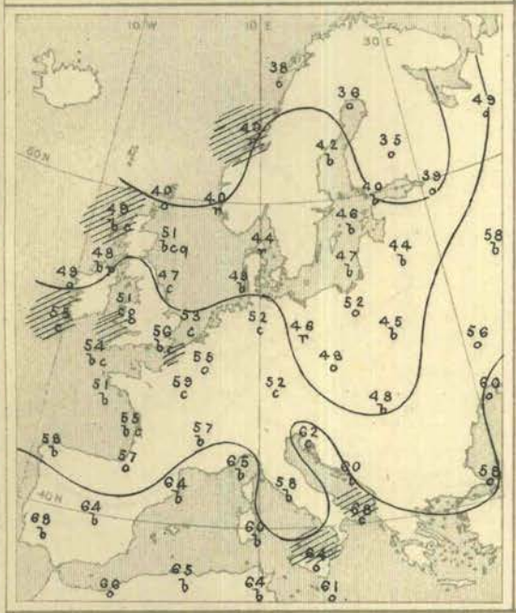
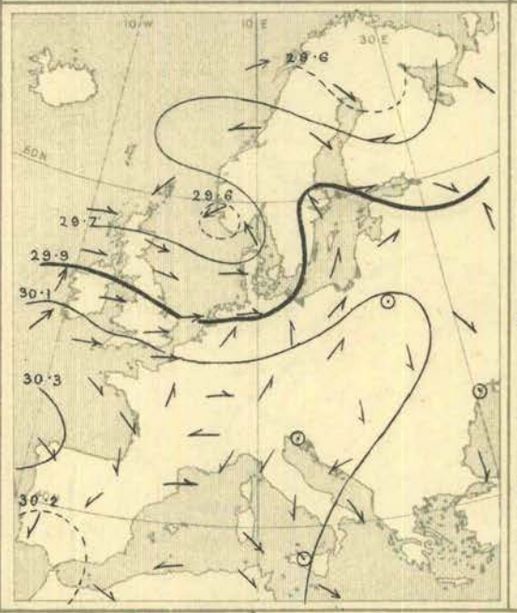
III.—SUMMARY OF WEATHER OVER EUROPE.

Thursday, 19th May.

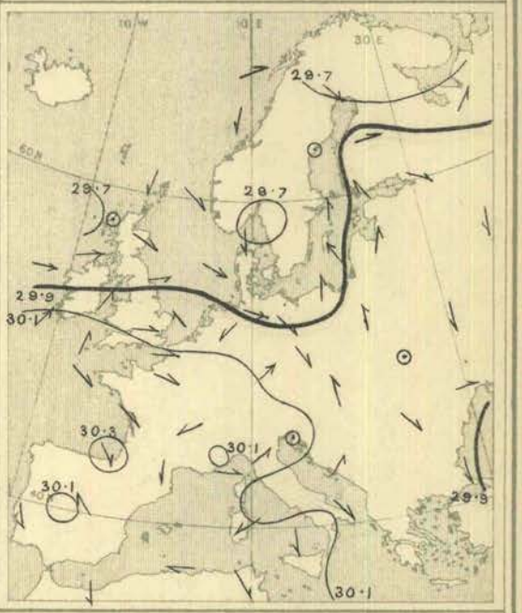
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather fine over Great Britain, and also in Sweden, Austria, and the greater part of southern Europe. Cloudy and showery in Ireland and rainy in the south of Norway, as well as at several of the Danish and German stations; dull over the greater part of Russia. Considerable amounts of rain falling later in the north of Ireland and the west of Scotland, and showers in most other parts of the United Kingdom. Thunderstorms occurring over the eastern and central parts of Germany.

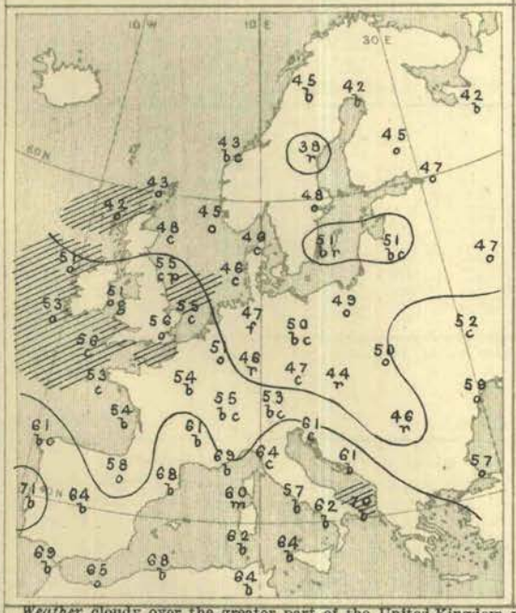
Temperature highest, 77° at Oporto, 69° at Barcelona, 68° at Lisbon, Oran, and Brindisi, and 66° at Nemours; above 60° at most of the Mediterranean and Adriatic stations, and above 55° over the central and southern parts of Russia. Lowest, 34° at Uleaborg, 35° at Kuopio, 36° at Haparanda, 38° at Bodö, and 39° at St. Petersburg; below 45° in most parts of Scandinavia and northern Russia, as well as in the Shetlands. Rising during day to between 60° and 65° in many parts of Great Britain, and to 70° or more over Italy and the central parts of France. Exceeding 80° at some of the Spanish and southern French stations, and reaching 86° at Lisbon.

Wind fresh from the Westward over the greater part of our Islands, but South-Westerly in the west of Ireland, South-Westerly or Southerly in Germany and the Baltic, South-Easterly over the Kattegat and the Skager Rack, and Easterly in the west of Norway, but Westerly over the northern parts of Scandinavia and Russia. Light or moderate from the Northward over a considerable portion of southern and eastern Europe, but variable in Algeria and the south of France. No important change occurring during day, but wind over Kattegat falling light and shifting to the Northward.

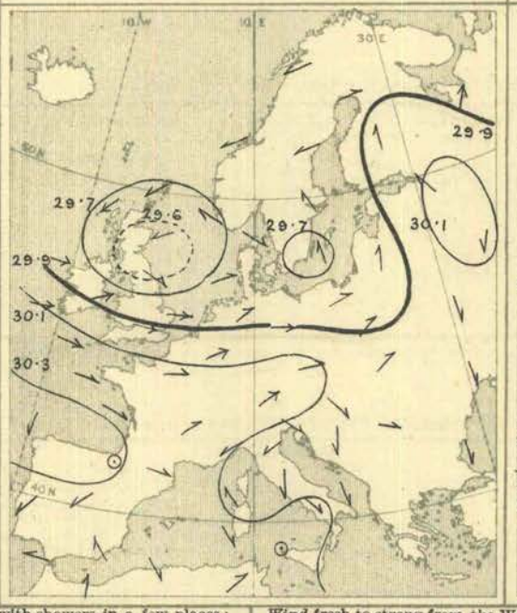
Barometer highest, 30·2 ins. to 30·3 ins. in a large anticyclone covering the greater part of Spain, France, the Bay of Biscay, northern Italy, Switzerland, south Germany, and western Austria. Lowest, 29·6 ins. and less in a depression lying over Lapland, and also in another disturbance lying off the south of Norway. Both depressions subsequently moving slowly eastwards, but new disturbance approaching the west of Scotland in evening.

Friday, 20th May.

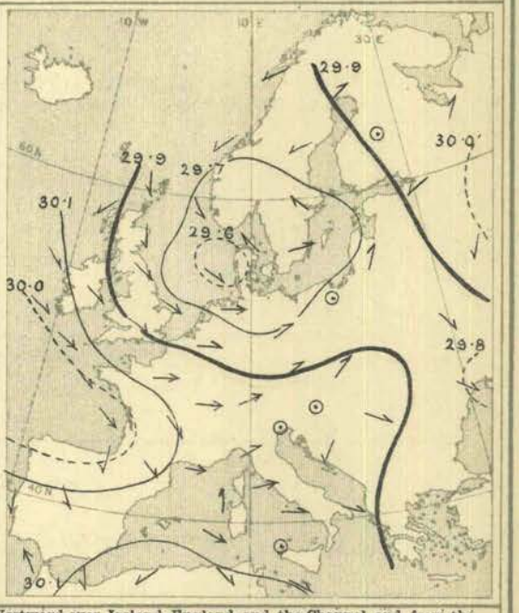
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather cloudy over the greater part of the United Kingdom, with showers in a few places; rainy over the Netherlands, as well as at several of the Austrian stations; dull in Russia. Fine over France and the whole of southern Europe, as well as over the greater part of Scandinavia. Showers falling later in all the more northern parts of our Islands, but sky clearing in the southern districts. Rain falling over Denmark and the south of Scandinavia.

Temperature highest, 71° at Lisbon, 70° at Brindisi, 69° at Barcelona and San Fernando, and 68° at Perpignan and Algiers; above 60° in nearly all parts of southern Europe, and above 55° in the south of Russia. Lowest, 38° at Hernösand, 42° at Haparanda, Archangel, Hangö, and Stornoway, and 43° at Uleaborg, Christiansund, Sumburgh Head, and Wick; below 40° in most parts of northern and central Europe. Rising during day to between 60° and 65° in the south and south-east of England, exceeding 70° over the central parts of France, and exceeding 80° over Algeria, Spain, and the extreme south of France.

Wind fresh to strong from the Westward over Ireland, England, and the Channel, and from the same quarter or from South-West in Germany. Moderate from the South-Eastward over the Baltic and the northern parts of Russia; Easterly or North-Easterly over Scandinavia and the north of Scotland—strong in force at Stornoway. Light from the Northward in the south of Russia, and from the North-Westward over Italy and the southern parts of France; North-Easterly in Spain, variable in Algeria. Subsequently veering to the North-Westward at many of the English and Irish stations. Backing to the Eastward over the northern parts of Russia.

Barometer highest, 30·1 ins. to 30·3 ins. in a large anticyclone covering south Germany, France, Spain, the Bay of Biscay, and all the more western parts of the Mediterranean; 30·1 ins. and upwards in another system lying over central Russia. Lowest, 29·6 ins. and less in a depression lying over Scotland and the adjacent parts of the North Sea; 29·7 ins. and less in another disturbance over the Baltic. Scotch depression subsequently moving eastwards to Denmark, and barometer rising briskly over northern parts of the United Kingdom. Baltic disturbance partially filling up.

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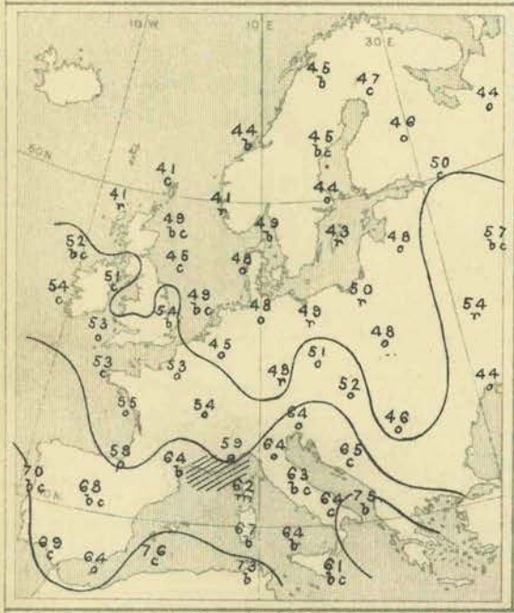
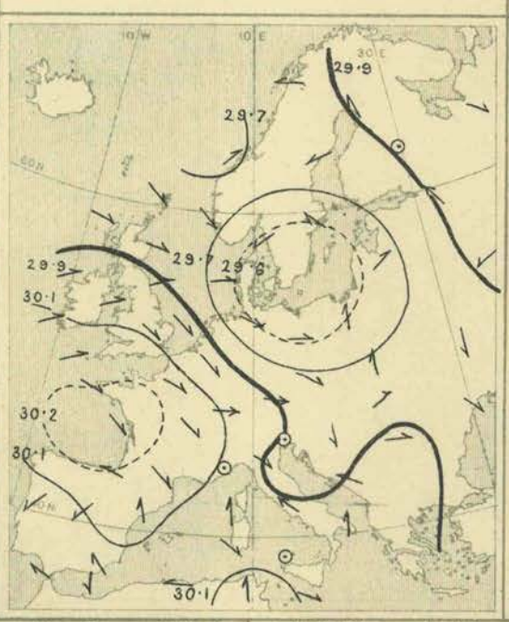
III.—SUMMARY OF WEATHER OVER EUROPE.

Saturday, 21st May.

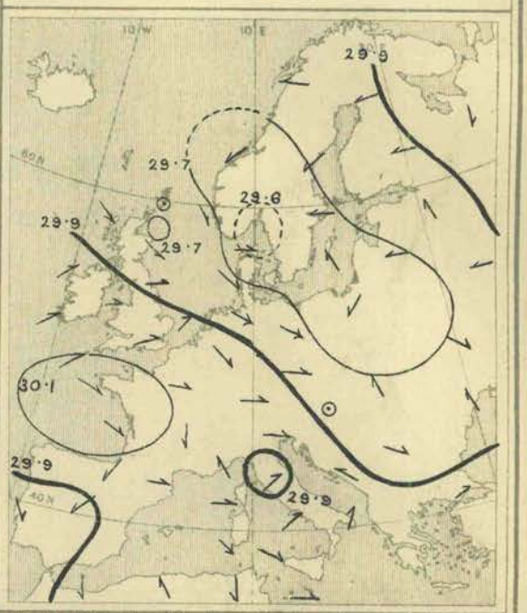
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



6 p.m.



Weather fine and bright over the greater part of our Islands, France, southern Europe, and Algeria, as well as in the northern parts of Scandinavia. Dull in Austria; rainy in the Hebrides, and also at several of the German, Russian, and Scandinavian stations. Rain falling later in most parts of Ireland and Scotland; thunderstorm occurring at Lisbon.

Temperature highest, 76° at Oporto and Algiers, 75° at Brindisi, 73° at La Calle, 70° at Lisbon, and 69° at San Fernando; above 60° in most parts of southern Europe, and above 55° over central Russia. Lowest, 41° at Sumburgh Head, Stornoway, and Skudesnaes, 43° at Hangö and Wisby, and 44° at Stockholm and Christiansund; below 50° over the north of our Islands generally, as well as in most parts of Scandinavia, Denmark, and northern Russia. Rising during day to between 60° and 68° over the inland parts of England, to 70° and upwards over the central and southern parts of France, and to 80° and upwards in many parts of Spain, Italy, and Algeria; exceeding 90° in central Algeria.

Wind light or moderate from the South-Westward in the west and north of our Islands, and from the North-Westward in France and the south-east of England. Moderate from the Westward in Germany and from the South-Westward in Austria; light from the South-Eastward in Russia, and from the Eastward in Sweden and the north of Norway. South-Easterly in Italy, variable in Algeria, Easterly or North-Easterly in Spain. Subsequently veering to the North-Westward in the north of Scotland, and also at some of the German stations.

Barometer highest, 30·2 ins. and upwards in an anticyclone lying over the Bay of Biscay and west of France; 30·0 ins. and upwards in another area lying over northern Russia. Lowest, 29·6 ins. and less in a depression lying over Denmark, the Baltic, and the south of Sweden; 29·7 ins. and less in another disturbance lying off the west of Norway. Danish depression subsequently moving eastwards to the Baltic Provinces. Disturbance off west of Norway passing south-eastwards to the south of Scandinavia.

GENERAL NOTES.

In the course of this week pressure has been almost continuously high over the southern parts of western Europe, and at times over central or south-eastern Russia also. Over the northern and north-western countries there has been a succession of well-marked, but not deep, depressions, moving from west to east, and occasionally shallow disturbances have appeared over the Mediterranean and south-eastern Europe. Thus, while fine warm weather has continued over Spain, France, and the south-eastern parts of our Islands, rain has fallen in the north-west and north and spread southwards at times to Germany.

BRIGHT SUNSHINE Values for the Week in addition to those found on page 116.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	29·4	?	26	?	EASTBOURNE	49·7	?	46	?
OSWALDKIRK (Yorkshire)	35·3	?	32	?	TENBY *	41·7 *	?	38 *	?
WORKSOP	29·2	−10·2	26	−10	NEWQUAY	42·8	?	40	?
THURCASTON (Leicestershire)	38·4	− 1·6	35	− 1	TORQUAY *	48·1 *	?	45 *	?
MARGATE	32·0	?	30	?	ARLEY COTTAGE (County Cavan)	28·8	?	26	?
WESTBOURNE (Sussex) *	39·9 *	?	37 *	?	GUERNSEY *	70·9 *	?	67 *	?
BRIGHTON	44·7	?	41	?					

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

Date of Report.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each Day.	Of Lowest each Day.	For whole of each Day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
April 16th, 1892.	Cambridge	—	—	—	—	—	—	—	—	—	—	—	34·1	− 0·7	36	0
„ „ „	Llandudno	60	27	48·1	31·3	41·0	−5·5	17	30	4	0·22	−0·20	58·3	+27·3	61	+ 29
„ 23rd, „	Llandudno	61	29	52·9	39·6	46·1	−1·4	39	7	5	0·27	−0·16	46·7	+11·9	47	+ 11
„ 30th, „	Llandudno	54	35	49·9	39·2	44·4	−4·1	29	8	4	0·55	+0·13	63·3	+25·3	62	+ 24

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.
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VOL. IX. No. 21.] *Third Series.* WEEK ENDING SATURDAY, 28TH MAY, 1892. [*Price 6d.* [*Annual subscription, post paid*, £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years' observations (1871-90). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the ten years 1881-90. RAINFALL.—*The Mean amounts* are those for the corresponding periods in the twenty-five years 1866-90, but the *Mean numbers of Rainy Days* are those for the ten years 1881-90, only. BRIGHT SUNSHINE.—*The Mean values* employed are those for the corresponding periods in the ten years 1881-90.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 122.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1892. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	68	32	56·5	42·1	48·9	0 (average)	48	− 1	0	− 3	338	− 2	748	+210
	1. SCOTLAND, EAST -	69	34	60·0	43·6	51·3	2 above.	65	+ 1	0	− 3	435*	−30	836*	+238
	2. ENGLAND, N.E. - -	72	36	63·6	48·9	55·8	5 above.	97	+32	0	− 2	451	+ 4	684	+186
	3. ENGLAND, EAST -	82	44	71·0	50·9	60·3	8 above.	128	+48	0	− 2	573	− 3	768	+107
	4. MIDLAND COUNTIES	81	41	69·6	51·2	59·9	8 above.	125	+46	0	− 2	646	+43	796	+245
	5. ENGLAND, SOUTH -	82	38	68·9	51·0	59·5	6 above.	123	+38	0	0	646	− 5	554	+138
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	66	39	58·8	46·4	52·2	1 above.	71	+ 4	0	− 1	485	0	609	+193
	7. ENGLAND, N.W. -	76	39	62·6	49·8	55·8	4 above.	97	+25	0	− 1	497	− 6	580	+166
	8. ENGLAND, S.W. -	72	37	61·5	50·6	55·8	3 above.	97	+21	0	0	655	+27	433	+117
	9. IRELAND, NORTH -	67	40	59·5	47·3	53·1	1 above.	78	+ 9	0	− 1	554	−17	484	+122
	10. IRELAND, SOUTH -	70	42	61·7	49·7	55·4	3 above.	94	+18	0	0	695	− 2	410	+133
	— CHANNEL ISLANDS -	69	46	62·5	52·5	57·2	3 above.	106	+23	0	0	726	− 4	164	+ 42

Rainfall.

	DISTRICTS. (See p. 122.)	For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1892. Number of Rainy Days.	Difference from Mean.	Total Fall.	Difference from Mean.
			10ths of In.	10ths of In.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	7	11	5 more.	101	+ 3	16·6	− 2·0
	1. SCOTLAND, EAST -	6	13	8 more.	74	− 5	8·7	− 2·6
	2. ENGLAND, N.E. - -	6	13	9 more.	77	+ 3	7·8	− 1·2
	3. ENGLAND, EAST -	2	5	0 (average)	73	0	6·9	− 2·0
	4. MIDLAND COUNTIES-	4	9	3 more.	65	− 6	6·9	− 3·2
	5. ENGLAND, SOUTH -	3	5	0 (average)	55	−15	5·4	− 4·8
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	6	21	15 more.	77	− 7	13·9	− 5·1
	7. ENGLAND, N.W. - -	6	13	8 more.	76	− 1	11·1	− 0·6
	8. ENGLAND S.W. - -	5	9	4 more.	71	− 7	9·3	− 5·6
	9. IRELAND, NORTH -	6	19	14 more.	80	− 9	11·2	− 1·8
	10. IRELAND, SOUTH -	6	18	13 more.	74	− 9	11·9	− 3·3
	— CHANNEL ISLANDS -	5	13	9 more.	75	−11	10·4	− 1·9

Bright Sunshine.

	DISTRICTS. (See p. 122.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1892. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	29	− 9	24	− 9	533	+ 58	31	+ 3
	1. SCOTLAND, EAST -	30	− 9	26	− 8	596	+ 66	35	+ 4
	2. ENGLAND, N.E. - -	17	−25	14	−22	569	+ 94	33	+ 5
	3. ENGLAND, EAST -	45	− 4	40	− 4	610	+ 46	35	+ 2
	4. MIDLAND COUNTIES-	30	−13	27	−11	598	+100	35	+ 6
	5. ENGLAND, SOUTH -	50	0	45	− 1	671	+142	39	+ 8
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	18	−27	16	−22	599	+ 87	35	+ 5
	7. ENGLAND, N.W. - -	18	−28	16	−24	610	+109	35	+ 6
	8. ENGLAND S.W. - -	15	−34	14	−31	718	+121	42	+ 7
	9. IRELAND, NORTH -	28	−14	25	−12	547	+ 41	32	+ 3
	10. IRELAND, SOUTH -	29	−17	25	−16	622	+ 39	36	+ 2
	— CHANNEL ISLANDS -	54	− 4	50	− 4	775	+ 70	45	+ 4

Bright Sunshine.—For several of the stations there are no "mean" values available, and the "difference from the mean" in some of the districts is consequently that of only a few of the stations.

General Remarks.

Weather continued unsettled and very rainy in all the western and northern parts of the Kingdom, and the disturbed conditions extended at times to the southern and eastern districts also. Thunder and lightning occurred in nearly all places—chiefly towards the end of the week.

Temperature just equalled the mean in Scotland N., but was above it in all other districts; in the west and south-west the excess varied between 1° and 3°, but in England S. it was 6°, and in the Midland counties and England E. as much as as much as 8°. The highest of the maxima, which were recorded on the 28th over England, and on irregular dates in Ireland and Scotland, ranged from 66° to 69° in Scotland, and from 67° to 70° in Ireland; over England they were much higher, ranging from 72° to 82°. The lowest of the minima were registered on the first day of the period, and ranged from 32° in Scotland N. to 44° in England E., and 46° in the Channel Islands.

Rainfall was equal to the normal value in England E. and S., but exceeded it in all other districts. In Ireland. Scotland, and the northern parts of England the fall was about three times as much as the mean.

Bright Sunshine shows a still further decrease in all districts excepting England E. and S., and was below the mean very generally. The percentage of the possible duration ranged from 14 in England N.E. and S.W., and 16 in Scotland N. and England N.W., to 40 in England E., 45 in England S., and 50 in the Channel Islands.

Barometer and Wind.—The barometer was generally highest to the south-eastward of our Islands, while several depressions passed northwards and north-eastwards over our extreme western and northern coasts, and small secondary disturbances appeared from time to time more directly over us. During the 28th a well marked but not deep depression moved north-north-westwad from the south-west of England to the neighbourhood of the Hebrides. Light or moderate winds from between south-west and south-east were most prevalent over our Islands, but they occasionally varied considerably in direction, and in one or two instances they blew freshly or strongly.

* This value has been altered slightly owing to the receipt of further information.

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II.—DATA from which the SUMMARY on page 115 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	56	33	51·9	40·6	45·9	− 0·6	33	4	6	1·03	+0·63	*	*	*	*
	Stornoway	58	33	54·3	41·6	47·6	− 0·6	41	1	7	2·00	+1·41	32·6	− 8·9	27	− 9
	Wick	64	35	55·0	42·3	48·3	− 0·2	44	0	6	1·05	+0·65	*	*	*	*
	Lairg ℌ	66	32	59·1	41·0	49·5	+ 0·2	57	3	7	0·89	+0·39	*	*	*	*
	Glencarron ℌ	65	35	58·3	42·0	49·7	+ 1·2	54	0	7	1·01	−0·11	*	*	*	*
	Fort Augustus ℌ	68	36	58·1	41·9	49·5	0·0	53	0	7	0·57	+0·11	24·2	?	21	?
	Fort William ℌ	66	38	59·1	45·0	51·6	+ 0·9	67	0	6	1·19	+0·35	29·7	?	25	?
1. SCOTLAND, E.	Nairn	65	36	61·1	42·3	51·1	+ 0·5	64	0	6	0·72	+0·33	*	*	*	*
	Aberdeen	66	37	58·1	43·3	50·3	+ 0·6	58	0	6	1·02	+0·60	35·9	− 9·6	31	− 8
	Braemar ℌ	64	34	57·5	41·0	48·8	+ 1·1	52	3	6	1·06	+0·55	36·0†	?†	31†	?†
	Ochtertyre ℌ	69	39	62·1	44·4	52·7	+ 2·7	75	0	6	2.12	+1·55	*	*	*	*
	Leith	68	39	60·7	44·9	52·3	+ 0·9	72	0	5	1·48	+1·11	*	*	*	*
	Marchmont ℌ	67	35	60·6	45·9	52·8	+ 3·1	76	0	7	1·39	+0·87	25·5	?	22	?
2. ENGLAND, N.E.	Alnwick Castle	67	42	62·4	48·9	55·3	+ 5·9	93	0	7	1·49	+1·07	*	*	*	*
	Durham	70	38	64·1	47·8	55·5	+ 5·2	95	0	5	1·22	+0·77	13·2	−27·6	11	−24
	Shields	66	36	61·3	47·0	53·7	+ 3·6	82	0	7	1·22	+0·84	*	*	*	*
	Scarborough ℌ	69	40	63·3	49·8	56·2	+ 5·4	99	0	5	1·45	+1·00	*	*	*	*
	York	72	42	66·6	50·6	58·1	+ 5·9	113	0	5	1·58	+1·12	22·2	−19·6	19	−19
	Spurn Head	69	44	63·6	49·0	55·9	+ 4·5	97	0	5	0·70	+0·35	*	*	*	*
3. ENGLAND, E.	Hillington ℌ	82	46	72·6	51·0	61·2	+ 8·6	134	0	2	0·42	−0·00	41·6	− 6·5	37	− 5
	Yarmouth	70	46	64·1	50·4	56·8	+ 5·1	104	0	2	0·24	−0·18	*	*	*	*
	Geldeston	81	44	71·5	50·0	60·1	+ 7·7	127	0	2	0·42	+0·01	50·4	− 2·2	45	− 2
	Cambridge	81	48	75·0	51·6	62·6	+ 9·0	144	0	2	0·57	+0·09				
	Rothamsted	79	46	72·0	51·3	61·0	+ 8·8	133	0	4	0·80	+0·30	42·6	?	38	?
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	76	41	69·9	49·1	58·9	+ 6·3	118	0	4	0·77	+0·28	*	*	*	*
	Loughborough	81	46	72·7	52·0	61·7	+ 8·3	138	0	4	0·32	+0·43	*	*	*	*
	Stamford (Ketton Hall)	81	47	72·1	51·3	61·1	+ 7·6	134	0	3	0·32	−0·18	*	*	*	*
	Cheadle ℌ	76	43	66·2	50·9	58·1	+ 7·7	113	0	4	1·20	+0·62	*	*	*	*
	Churchstoke ℌ	76	46	67·0	51·1	58·6	+ 7·9	116	0	4	1·08	+0·58	23·0	−20·4	20	−18
	Hereford ℌ	76	48	69·6	52·0	60·5	+ 7·1	130	0	6	1·18	+0·70	*	*	*	*
	Cirencester	75	45	68·7	50·6	59·1	+ 7·4	120	0	4	0·49	−0·03	32·0	−13·8	29	−12
	Oxford	77	46	70·7	52·4	61·0	+ 7·8	133	0	3	0·82	+0·35	40·5	− 4·4	36	− 4
5. ENGLAND, S.	London	80	44	74·1	52·7	62·6	+ 8·2	144	0	3	1·02	+0·58	43·9†	+ 0·4†	40†	+ 1†
	North Foreland	82	38	71·0	48·9	59·3	+ 6·9	121	0	1	0·01	?	*	*	*	*
	Strathfield Turgiss ℌ	76	43	73·0	49·6	60·9	+ 7·7	132	0	4	0·82	+0·40	*	*	*	*
	Dungeness	72	45	66·0	50·4	57·7	+ 4·2	110	0	1	0·02	−0·37	*	*	*	*
	Hastings (St. Leonards)	74	44	66·9	51·8	58·9	+ 4·9	118	0	2	0·09	−0·36	52·4	− 2·9	48	− 3
	Southampton	76	45	69·7	51·8	60·2	+ 5·6	127	0	2	0·71	+0·21	47·3	− 1·8	43	− 1
	Hurst Castle	69	46	64·4	52·0	57·8	+ 4·1	111	0	3	0·86	+0·43	*	*	*	*
	Stowell ℌ	70	46	66·1	51·1	58·2	+ 5·8	113	0	5	0·28	?	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	66	39	60·0	44·1	51·6	+ 0·3	67	0	5	1·43	+0·49	*	*	*	*
	Glasgow	66	39	60·3	47·6	53·6	+ 2·3	81	0	6	2·06	+1·51	19·8	−16·2	17	−15
	Ardrossan	65	41	57·4	47·4	52·1	+ 0·6	71	0	6	2·85	+2·30	*	*	*	*
	Glenlee ℌ	66	40	59·7	46·0	52·4	+ 2·1	73	0	6	2·66	+1·99	*	*	*	*
	Douglas (Isle of Man)	63	42	56·5	46·8	51·4	+ 0·4	66	0	7	1·60	+1·11	16·1	−35·2	14	−31
7. ENGLAND, N.W.	Newton Reigny	68	39	62·5	47·2	54·4	+ 5·1	87	0	6	1·22	+0·77	26·4	−20·4	23	−20
	Stonyhurst	69	43	61·8	50·1	55·6	+ 3·5	95	0	6	1·54	+0·92	13·3	−31·3	12	−27
	Blackpool ℌ	72	41	62·7	49·5	55·7	+ 3·4	96	0	5	1·41	+0·92	18·6	−27·6	16	−25
	Manchester	73	45	64·5	52·7	58·3	+ 6·8	114	0	5	1·52	+0·92	*	*	*	*
	Liverpool Obsy. (Bidston)	76	44	66·1	50·7	57·9	+ 4·8	111	0	6	0·96	+0·54	*	*	*	*
	Llandudno ℌ												13·3	−30·7	12	−27
	Holyhead	66	44	58·0	48·3	52·9	+ 0·4	76	0	7	1·10	+0·67	*	*	*	*
8. ENGLAND, S.W.	Llandovery	72	37	65·4	49·7	57·1	+ 4·4	106	0	5	0·95	+0·30	*	*	*	*
	Pembroke	62	47	56·1	49·3	52·5	+ 0·6	74	0	6	0·99	+0·53	5·3	−45·1	5	−41
	Arlington (N. Devon)	69	45	62·3	49·6	55·6	+ 4·4	95	0	6	1·08	+0·38	*	*	*	*
	Cullompton ℌ	70	48	66·9	51·1	58·5	+ 6·1	116	0	5	0·73	+0·25	24·5	−21·5	22	−19
	Falmouth	65	51	60·2	52·0	55·9	+ 2·8	97	0	5	1·35	+0·75	12·3	−35·2	11	−36
	Plymouth	67	50	60·3	52·0	55·9	+ 0·5	97	0	6	1·03	+0·58	15·4	−32·3	14	−29
	Prawle Point	65	46	59·4	50·7	54·8	+ 2·3	90	0	4	0·43	+0·08	*	*	*	*
9. IRELAND, N.	Malin Head	60	43	57·1	47·9	52·2	− 0·3	71	0	6	2·20	?	*	*	*	*
	Londonderry	?	43	?	47·9	?	?	?	0	7	1·93	+1·39	*	*	*	*
	Mullaghmore	62	42	59·3	47·3	52·9	+ 0·2	76	0	7	2·11	+1·51	*	*	*	*
	Belmullet	59	42	56·9	48·1	52·2	− 0·7	71	0	5	1·74	?	*	*	*	*
	Markree Castle	63	40	60·4	46·0	52·8	+ 2·4	76	0	6	1·76	+1·28	24·3	−17·7	21	−15
	Brookeborough	66	40	61·7	47·5	54·2	+ 3·1	85	0	6	2·34	+1·76	*	*	*	*
	Armagh	67	40	62·0	45·1	54·6	+ 3·2	88	0	6	2·11	+1·66	31·5	−10·7	28	− 9
	Donaghadee	65	43	59·3	46·9	52·7	+ 1·3	75	0	7	1·97	+1·47	*	*	*	*
	Edgeworthstown	?	40	?	46·3	?	?	?	0	6	0·89	+0·27	*	*	*	*
10. IRELAND, S.	Dublin	70	46	65·0	50·4	57·3	+ 4·2	107	0	6	2·38	+1·94	28·4	−19·6	25	−18
	Parsonstown	68	45	63·9	48·6	55·8	+ 3·5	97	0	6	2·27	+1·76	23·9	−18·6	21	−16
	Kilkenny	66	46	62·6	49·9	55·9	+ 3·1	97	0	4	1·96	+1·49	*	*	*	*
	Waterford	64	46	61·1	49·2	54·8	+ 1·6	90	0	7	1·98	+1·44	*	*	*	*
	Roche's Point	57	47	56·1	49·6	52·7	− 1·2	75	0	6	2·14	+1·43	*	*	*	*
	Valencia	63	43	60·7	49·4	54·7	+ 1·5	89	0	4	0·98	+0·28	33·3	−14·6	30	−13
	Killarney	66	42	62·1	50·5	56·0	+ 3·5	98	0	6	1·48	?	*	*	*	*
	Foynes	64	46	62·3	49·6	55·6	+ 3·4	95	0	5	1·25	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	62	50	58·3	52·3	55·1	+ 1·6	92	0	6	1·87	+1·49	*	*	*	*
	Jersey	69	46	66·6	52·6	59·2	+ 4·7	120	0	4	0·80	+0·38	51·5	− 4·8	48	− 4

Stations marked ℌ are in connection with the Royal Meteorological Society, and those marked ℑ with the Scottish Meteorological Society.

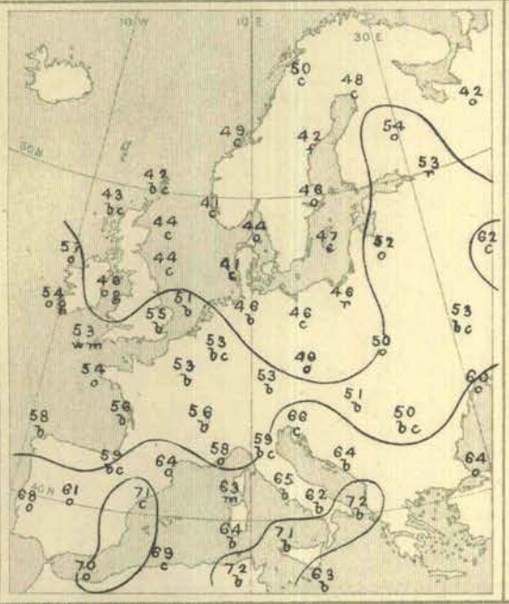
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory and the Meteorological Office, Victoria Street. For additional Reports of Sunshine see last page.

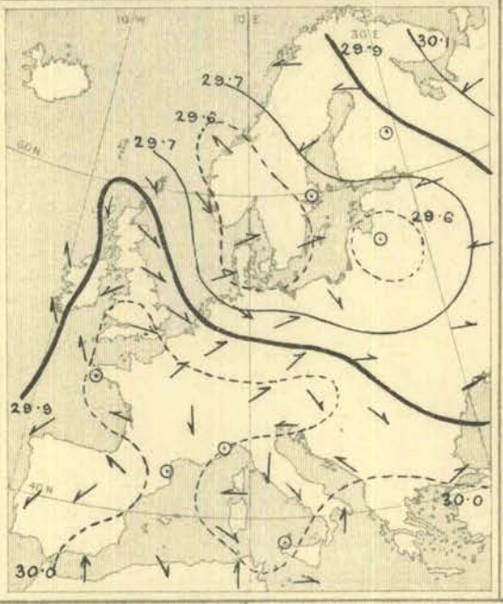
III.—SUMMARY OF WEATHER OVER EUROPE.

Sunday, 22nd May.

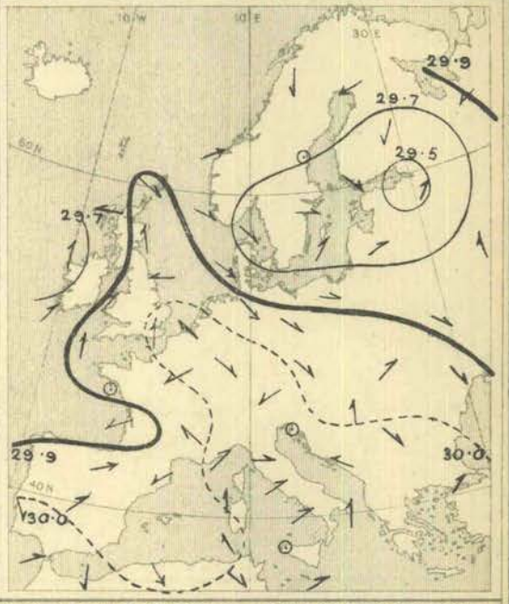
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather fine in the south and east of England, as well as over France, Italy, and western Germany. Cloudy and overcast elsewhere, with rain in the north of Ireland, as well as at Copenhagen and St. Petersburg; thunder reported at Corunna. Rain falling later in the west and north of our Islands generally, heavily at some of our north-western stations, smaller quantities in various parts of Scandinavia, Russia, and Poland; thunderstorms occurring in the south-west of France in the evening.

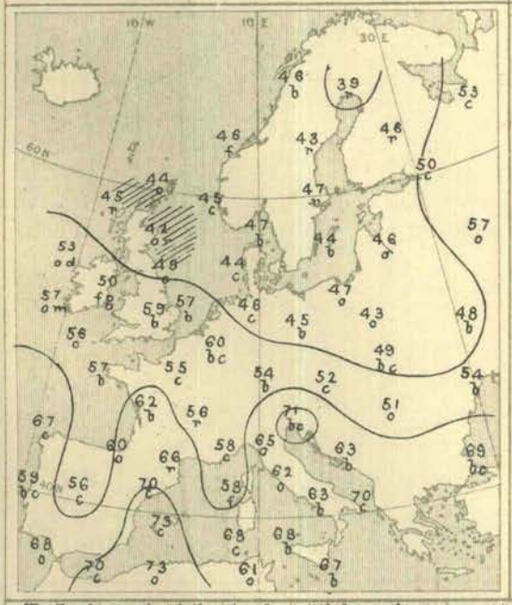
Temperature highest, 72° at Brindisi and La Calle, 71° at Barcelona and Palermo, and 70° at Nemours, above 60° over southern and eastern Europe, generally, as well as over central Russia. Lowest 41° at Skudesnaes and Fanö, 42° at Archangel, Hernösand, and Sumburgh Head, and 43° at Stornaway, Nairn, and Mullaghmore. Rising during day to 65° or a little more in the eastern and central parts of England, to 70° or more in France, and north of Italy, to 80° and more in the south-west of France, southern Italy, and Algeria, and to 106° at Aumale.

Wind light or moderate from the Eastward over the Bay of Biscay, and from the South-Eastward or Southward in the west of our Islands; light from the North-West on the east coasts of Great Britain, and strong on the eastern shores of the North Sea. Light from the Westward in the south of England; moderate or fresh over Germany and the south of Russia, light from the Eastward over the northern parts of Russia and Scandinavia, variable in Italy, South-Easterly in Spain, Southerly in Algeria. Subsequently shifting to the South-Eastward on the east coast of Great Britain, and to the South-Westward in the west. North-Westerly wind over North Sea moderating.

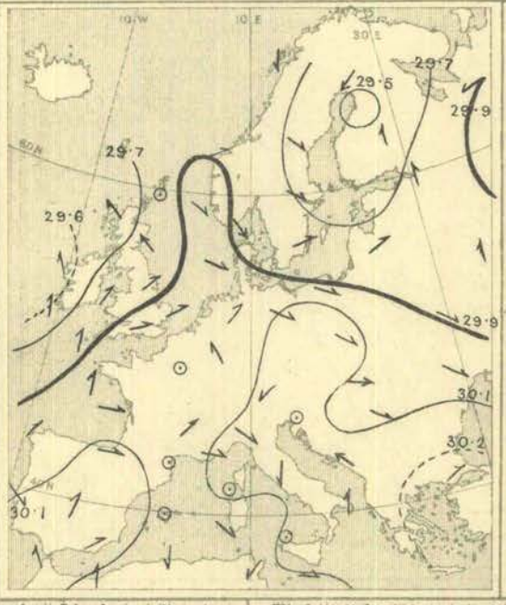
Barometer highest 30·0 ins. to 30·1 ins. in two large areas covering a considerable portion of southern and central Europe, and also in another system lying over the north of Russia. Lowest 29·6 and less in a large depression lying over Denmark and the south of Scandinavia, and in a smaller disturbance lying over the Baltic Provinces. Former depression subsequently moving away in a north-easterly direction and merging with that over the Baltic Provinces; another low pressure system appearing off our west coast in evening.

Monday, 23rd May.

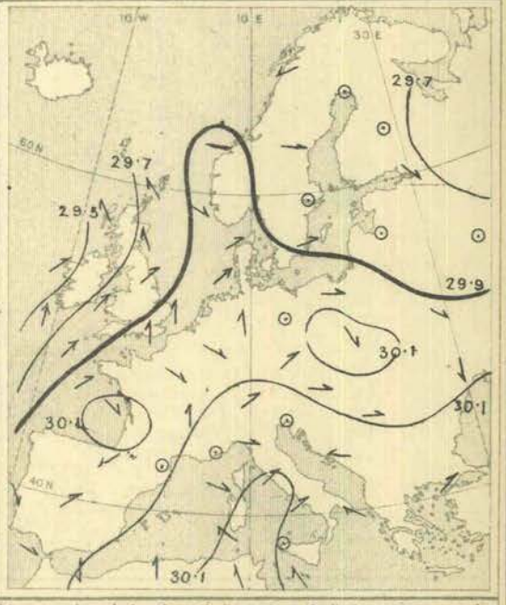
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning dull, wet and, unsettled over the western parts of our Islands, as well as over Sweden and Finland; rainy also in several of the southern parts of France; fine and bright in the south and east of England and the north of France, the Netherlands, Germany and south-eastern Europe, fair elsewhere. Considerable rain later in the north of Ireland and west of Scotland (1·0 in. at Stornaway), smaller quantities over Sweden and at Munich. Thunderstorms at Mullaghmore, in France, and north-west Germany; some rain in south of Italy.

Temperature rising decidedly over the United Kingdom, falling over Spain and Russia. Morning reading exceeding 60° at nearly all the Mediterranean stations, and exceeding 70° at several of them, exceeding 50° over France, South Germany, England, and Ireland, and also over many parts of Russia and the Balkan Peninsula. Lowest 39° at Haparanda, 41° at Helsingfors, 42° at Aberdeen and Wick. Rising during day to between 63° and 72° over the greater part of England, and to a somewhat higher value in France, and to 80° and more on the southern side of the Mediterranean. Air much dampier over England than of late.

Wind (1) light and very variable over the whole of southern and south-western Europe; (2) Easterly in the extreme north, North-Westerly over Scandinavia and Denmark, Westerly over Germany, Austria, and Poland, Southerly at Moscow and St. Petersburg; (3) Southerly (South-West to South-East) over the United Kingdom, and blowing very strongly at Wick. Freshening somewhat in Ireland later, not much change elsewhere, but the cyclonic circulation over northern Europe dying out.

Barometer highest 30·2 ins. and more to 30·0 ins. in a large but complex anticyclone covering the whole of south-western, southern, south-eastern, and central Europe, and stretching in the form of a ridge across the eastern parts of the North Sea and Norway. Lowest 29·5 ins. and less, in a depression lying over the north of Sweden and part of Finland; 29·6 ins. and less, in another disturbance off the west of Ireland. Very shallow secondary disturbances over Scotland and the north of France. Falling unsteadily over the United Kingdom later as the disturbance in the west moved northwards; depression over Finland filling up.

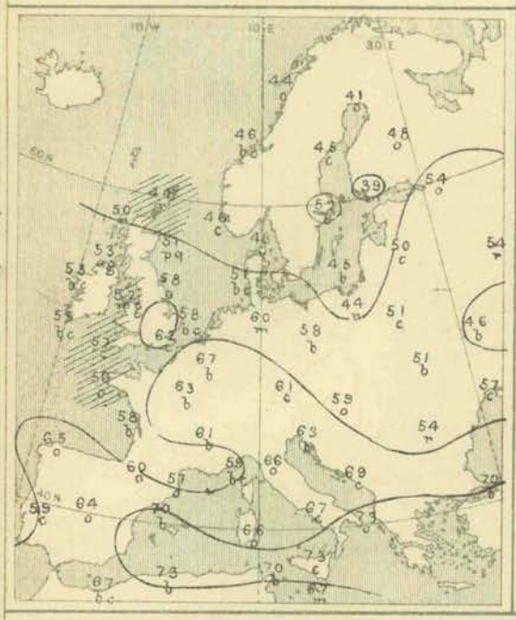
Judd & Co Ltd, Lith. 63, Carter Lane, Doctors' Commons.

III.—SUMMARY OF WEATHER OVER EUROPE.

Tuesday, 24th May.

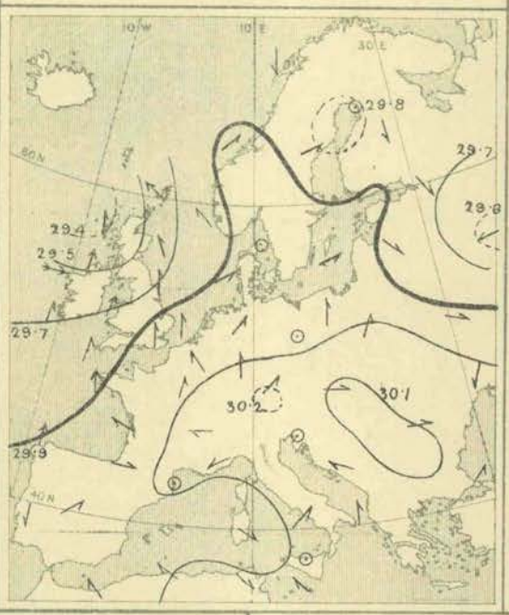
Temperature and Weather.

8 a.m.

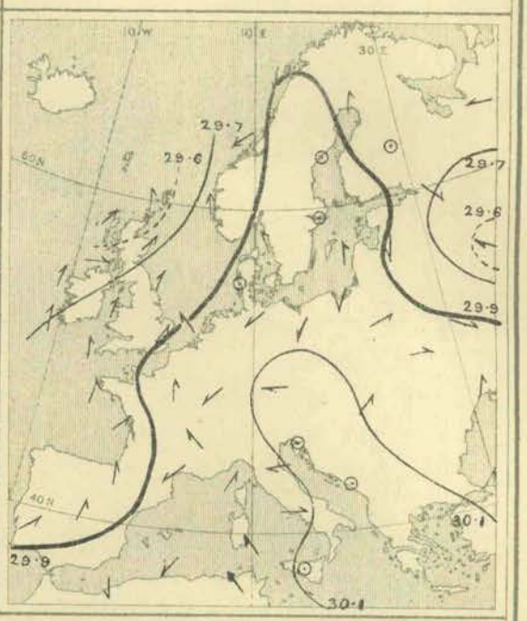


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over central and western Europe as well as over the southern parts of the British Islands, cloudy, more or less, elsewhere; dull and showery in the north and north-west of the United Kingdom, and also over central Russia. Rain later in considerable quantity on the shores of the Irish Channel, and smaller quantities at our western and northern stations generally, and over parts of northern Europe. Thunderstorms over France and north-west Germany later, and very slight thunder showers in England next morning.

Temperature continuing to increase in most places. Morning readings exceeding 70° at the more southern of the Mediterranean stations, and exceeding 60° in many parts of France and central England; below 50° over northern Europe, and as low as 39° at Hangö, 41° at Haparanda, 44° at Bodö and Sumburgh Head. Rising later to 90° and more over Algeria and the south-west of France, to 82° at Paris, 81° at Brussels, 70° and more over Italy, and 73° in London.

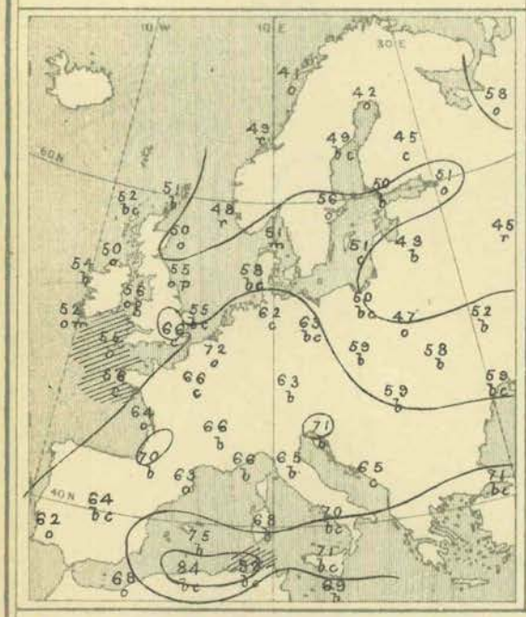
Wind very light and variable over the Continent generally; moderate Southerly over the Bay of Biscay, England, and Ireland, South-Easterly in Scotland. Veering to South-West at the Scotch stations later, and varying through several points at some of the English and French stations; backing Southwards all over Ireland, and moderating and becoming North-Westerly over the Baltic Provinces and the Gulf of Finland.

Barometer highest 30·2 ins. to 30·0 ins. over the south-western, southern, south-eastern, and central countries of Europe, and exceeding 29·9 ins. in a ridge stretching northwards from the Baltic across the southern half of Scandinavia. Lowest about 29·6 ins. in a shallow depression over central Russia, and about 29·4 in. in another disturbance the centre of which lay off our extreme north-west coasts. Latter disturbance moving north-eastwards later, but apparently some fresh shallow systems moving northwards over the Bay of Biscay.

Wednesday, 25th May.

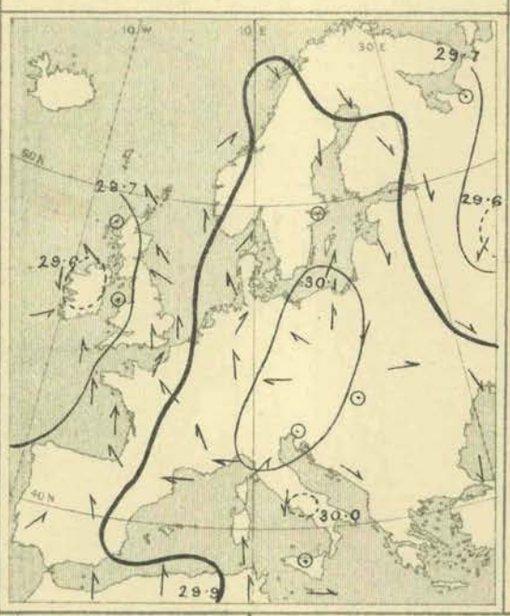
Temperature and Weather.

8 a.m.

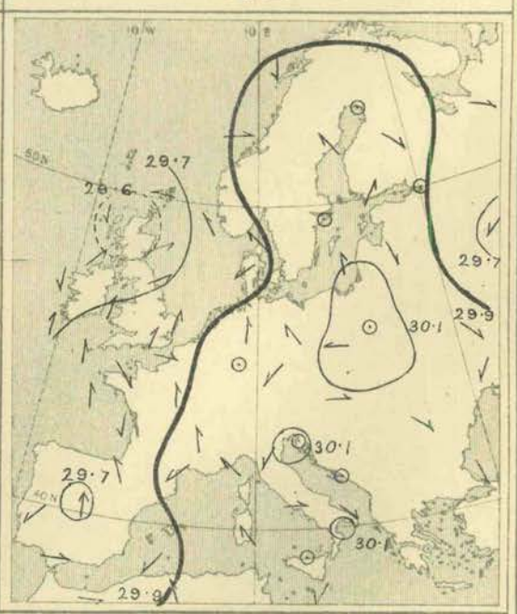


Barometer and Wind.

8 a.m.



6 p.m.



Weather dull over the greater part of Ireland, England, and the south of Scotland, with rain in many places, and with thunderstorms at some of the inland English stations; rainy also in the west of Norway. Fine and bright over the Continent generally, but cloudy in many parts of Russia, with rain at Moscow. Temporary improvement taking place over Ireland and England during day, but solar halos seen in the latter country, and smart thunderstorms occurring again at night, with heavy rain in places.

Temperature highest 84° at Algiers, 82° at La Calle, 78° at Bilbao, 75° at Palma, and 72° at Oran; above 65° in many parts of France and southern Europe, as well as over the inland parts of the south-east of England. Lowest, 41° at Bodö, 42° at Haparanda, 43° at Uleaborg, 45° at Kuopio and Moscow, and 46° at Memel; below 50° in many parts of Russia and Scandinavia. Rising during day to between 75° and 80° over all the inland and south-eastern parts of England; exceeding 80° over Italy, and 90° at several French and Algerian stations.

Wind light or moderate from the South-Eastward or Southward over the greater part of western Europe, and a distinct cyclonic circulation of light winds reported over Ireland. Light from the Northward or North-Westward over Russia, variable in Italy, Southerly in Algeria Cyclonic circulation over Ireland transferred later to Scotland; wind falling light over England and the west of France, and varying much in direction at the French stations.

Barometer highest, 30·0 ins. to 30·1 ins. in an anticyclone covering the greater part of central and southern Europe. Lowest, 29·6 ins. and less, in a small depression lying over Ireland, and also in a larger system lying over Russia. Irish depression subsequently moving north-eastwards to Scotland, but shallow secondary disturbances appearing over various parts of England and France.

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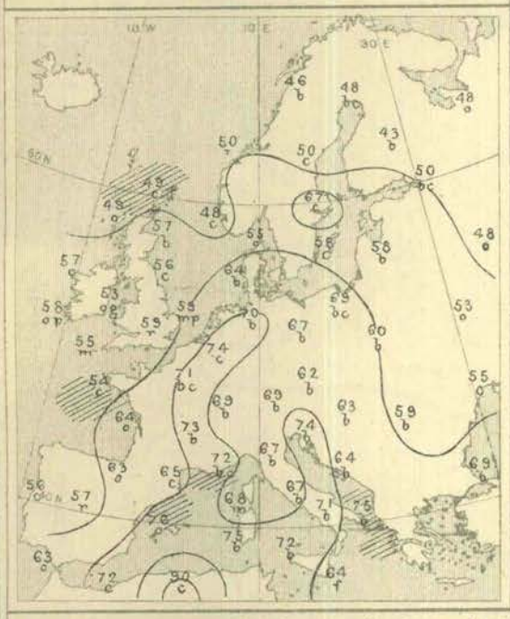
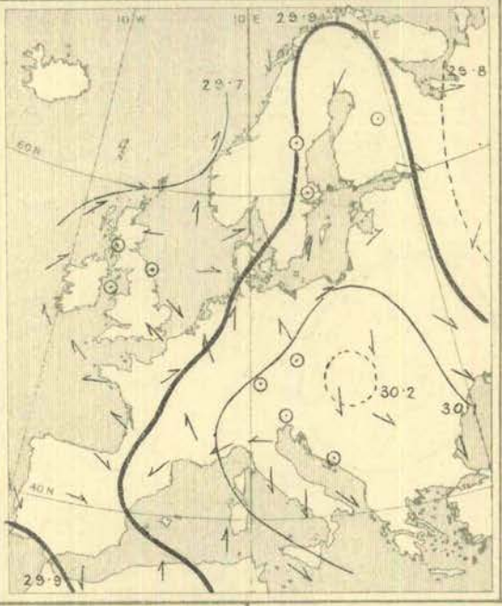
Thursday. 26th May.

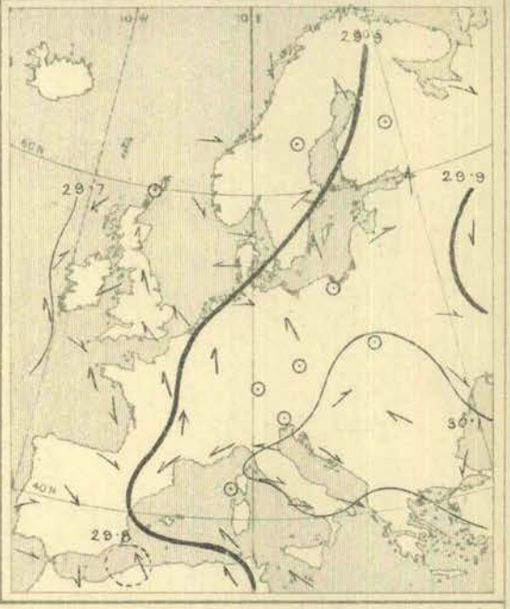
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over south-eastern and central Europe, cloudy or overcast elsewhere, and very unsettled in many parts of the British Islands and west of France; rainy in places. Thunderstorms and rain over the south-east and east of England and west of France later, as well as at Holyhead and Malin Head; showers, more or less, in almost all parts of the British Islands.

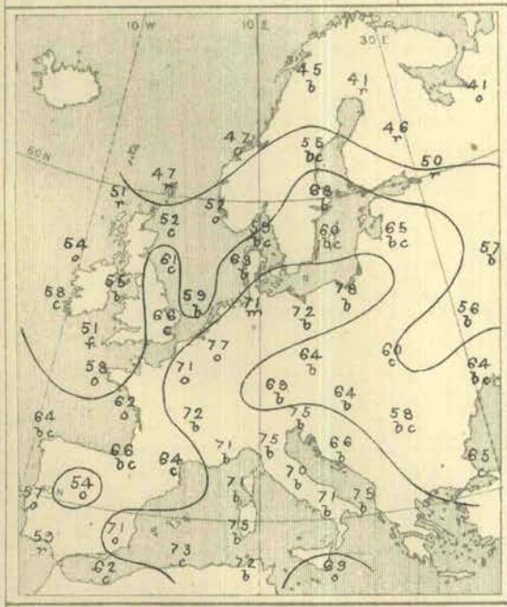
Temperature changing fitfully; fallen over England and Holland, risen over Germany and France. Morning readings exceeding 70° at many Mediterranean stations as well as over the east and north of France; below 60° over the United Kingdom and on the shores of the Baltic. Lowest, 43° at Kuopio, 46° at Bodö, 48° at Archangel and Skudesnaes, 49° at Hangö and also at Sumburgh Head. Rising later to 70°, or a little more, over many parts of England, then falling briskly towards night. Rising to about 90° in the south-west of France and in some parts of Italy, and touching 100° in some parts of Algeria.

Wind light generally; variable from between South-East and South over the greater part of Ireland, England, north Germany, and France. Easterly on the northern shores of the Mediterranean. Southerly over Algeria; small cyclonic circulation over the east of England and the Netherlands. Chiefly South-Westerly in Scotland, Southerly over Norway, very variable elsewhere. Becoming Easterly in Scotland later and Westerly in Norway, but remaining light in force.

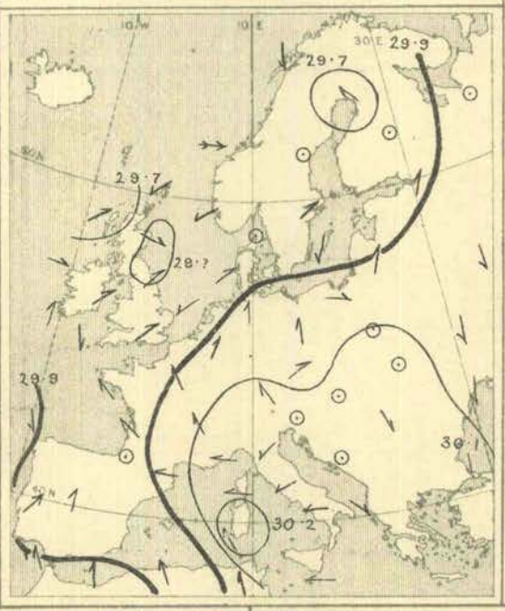
Barometer highest, 30·2 ins., and more, to 30·0 ins. in an anticyclone covering south-eastern, central, and southern Europe. Lowest, 29·7 ins. and less off the extreme north of our Islands and the west of Norway; 29·8 ins. and less over central and north-eastern Russia. A very shallow local depression observed between the mouth of the Thames and Belgium. Changing little and irregularly later.

Friday, 27th May.

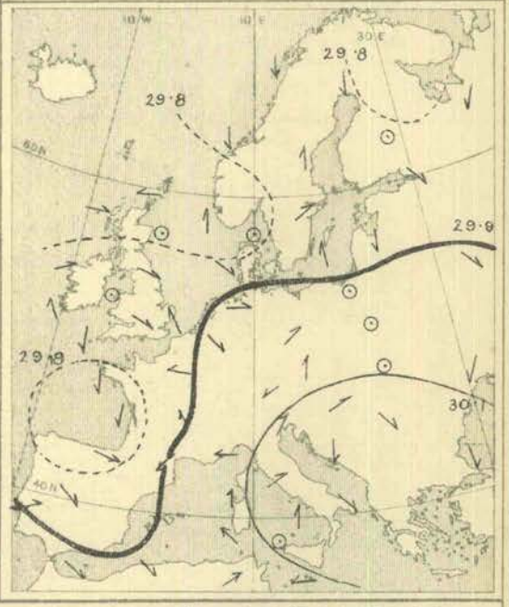
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over central Russia, south-eastern, central, and southern Europe, and in Tunis; cloudy, more or less, elsewhere, with a good deal of rain over Finland and the east of Lapland, showers in several parts of our Islands and at Lorient; much fog on our south-west coast. Rain later over northern Russia, Scandinavia, and the western and northern parts of the United Kingdom and at Christiansund, a considerable quantity over Brittany, and some over Spain.

Temperature increasing over western Europe; morning readings exceeding 70° at the Mediterranean and most of the French stations, as well as in north Germany; exceeding 60° over central England, lower elsewhere. Lowest, 41° at Archangel and Haparanda, 47° at Christiansund and Sumburgh Head, 48° at Wick. Rising later to 70° and more over Denmark and central England, to 80° and more over Italy, and to 90° and more in some parts of France, western and northern Germany.

Wind light and very variable; calm over south-eastern Europe, South-Easterly to Southerly over France, the Netherlands, and Hanover, extremely variable over the United Kingdom. An ill-defined cyclonic circulation prevailing over northern Europe. The latter system breaking up later; very little change elsewhere.

Barometer highest, 30·1 ins. and more over the whole of Italy and south-eastern Europe, and exceeding 29·9 ins. over the whole of eastern, central, and southern Europe. Lowest, 29·7 ins. and less over the north-west of Scotland, and also in a depression covering the northern extremity of the Gulf of Bothnia; gradients very slight and variable. Rising somewhat in our Islands later, and depression in far north filling up; no change of a decided character reported elsewhere.

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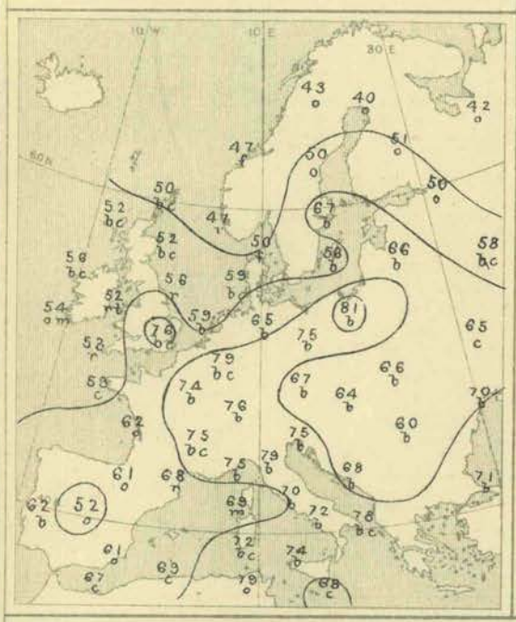
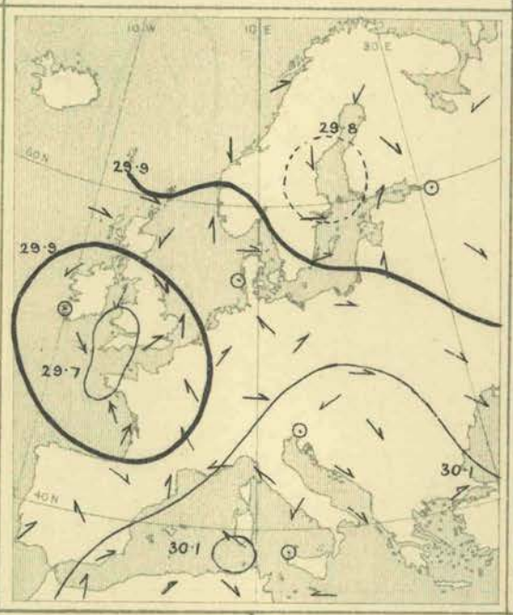
III.—SUMMARY OF WEATHER OVER EUROPE.

Saturday, 28th May.

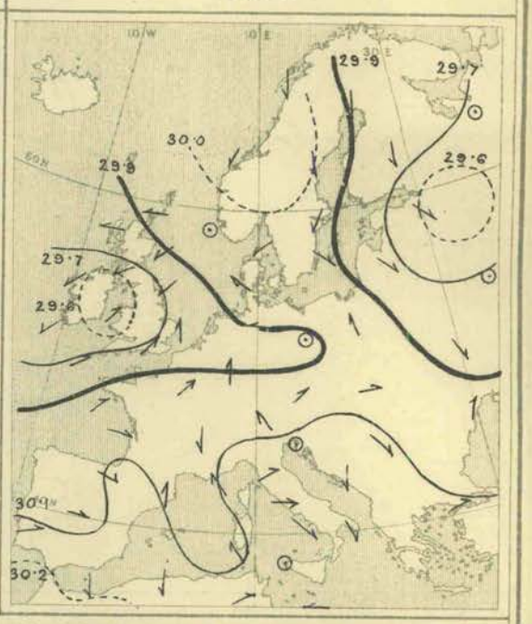
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over France Italy, Austria, Germany, and south-eastern Europe, cloudy or overcast elsewhere. Unsettled and rainy over the western and northern parts of England, as well as over the Gulf of Bothnia. Heavy rains later over the western parts of our Islands, and in Brittany, considerable quantities in the south of France; thunderstorms in the Netherlands.

Temperature risen greatly over the south and south-east of England and slightly over southern and central Europe. Morning readings exceeding 70° over the south-eastern parts of the Mediterranean, the east and north-east of France, north Germany, in London, and at Cambridge, Lowest, 40° at Haparanda, 42° at Archangel and Uleaborg, 43° at Bodö. Not rising much over the south-east of England during day, but exceeding 90° in the north-east of France and the Netherlands, and approaching that value in several parts of Italy and Algeria. Sudden fall over south-east of England in evening.

Wind light to moderate in force, and variable in direction. Separate cyclonic circulations, of little strength, prevailing (1) over Ireland, England, and France; (2) over Sweden, the Baltic, and Finland. The South-Westerly winds becoming stronger over the Channel and south of England later and spreading Northwards gradually; Easterly wind in Scotland freshening slightly.

Barometer highest, 30·1 ins. and more to 30·0 ins. over south-western, southern, central, and south-eastern Europe. Lowest, 29·7 ins. and less in a rather complex depression lying over the south-west of our Island, the western part of the Channel, and Brittany; and 29·8 ins. and less in a very shallow disturbance over Sweden. Local disturbances of little size off our north-east coast and over western Prussia. Former depression moving northwards, latter filling up.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟹ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During this period pressure has been almost continuously highest over the Mediterranean and the southern and central countries of Europe, and a ridge, spreading northwards, has passed from west to east over the more northern countries. On the western side of this ridge rain set in on our western and northern coasts, and spread gradually over the British Islands, while local disturbances caused thunderstorms over France, and these ultimately spread to England. Temperature over western Europe has been high generally—on Saturday it was very high for the time of year, especially over the south-eastern and midland parts of England, where it rose to between 80° and 82°. The wind has varied greatly in direction, and has occasionally been strong in force.

BRIGHT SUNSHINE Values for the Week in addition to those found on page 122.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	21·5	?	19	?	EASTBOURNE	48·2	?	44	?
OSWALDKIRK (Yorkshire)	14·2	?	12	?	TENBY	11·8 *	?	11 *	?
WORKSOP	22·2	−17·1	20	−16	NEWQUAY	8·3	?	8	?
THURCASTON (Leicestershire)	33·9	− 7·1	30	− 5	TORQUAY	29·7 *	?	27 *	?
MARGATE	50·4	?	46	?	ARLEY COTTAGE (County Cavan)	28·7	?	25	?
WESTBOURNE (Sussex)	55·2 *	?	50 *	?	GUERNSEY	56·1 *	?	52 *	?
BRIGHTON	48·9	?	44	?					

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.
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VOL. IX. No. 22.] *Third Series.* WEEK ENDING SATURDAY, 4TH JUNE, 1892. [*Price* 6*d.* [*Annual subscription post paid*, £1 10*s.* 0*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years' observations (1871–90). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the ten years 1881-90. RAINFALL.—*The Mean amounts* are those for the corresponding periods in the twenty-five years 1866–90, but the *Mean numbers of Rainy Days* are those for the ten years 1881-90, only. BRIGHT SUNSHINE.—*The Mean values* employed are those for the corresponding periods in the ten years 1881–90.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 128.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1892. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	66	40	57·2	45·7	51·0	1 above.	63	+ 9	0	− 2	401	+11	748	+207
	1. SCOTLAND, EAST -	72	37	60·0	46·3	53·1	2 above.	78	+ 8	0	− 1	513	−19	836	+237
	2. ENGLAND, N.E. - -	74	43	65·2	50·0	57·1	5 above.	106	+39	0	− 2	557	+38	684	+186
	3. ENGLAND, EAST -	84	38	68·7	49·5	58·5	4 above.	116	+30	0	− 2	689	+24	768	+207*
	4. MIDLAND COUNTIES	80	37	67·0	48·6	57·1	3 above.	106	+20	0	− 1	752	+63	796	+244
	5. ENGLAND, SOUTH -	83	38	65·6	50·4	57·5	3 above.	109	+18	0	0	755	+ 8	554	+138
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	68	40	58·5	47·4	52·6	0 (average)	74	+ 1	0	− 1	559	+ 6	609	+193
	7. ENGLAND, N.W. -	75	43	63·0	50·5	56·3	3 above.	100	+21	0	0	599†	+20	579†	+165
	8. ENGLAND, S.W. -	74	34	60·6	49·4	54·6	1 above.	88	+ 5	0	0	743	+29	433	+117
	9. IRELAND, NORTH -	67	40	58·8	47·5	52·8	0 (average)	76	+ 1	0	0	630	−15	484	+122
	10. IRELAND, SOUTH -	68	38	60·7	48·9	54·4	0 (average)	87	+ 4	0	0	782	+ 3	410	+132
	— CHANNEL ISLANDS -	73	45	63·7	54·5	57·7	3 above.	110	+21	0	0	836	+15	164	+ 42

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 128.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1892. Number of Rainy Days.	Difference from Mean.	Total Fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1892. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of In.	10ths of In.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	6	15	8 more.	107	+ 5	18·1	− 1·1	19	−10	15	− 9	552	+ 43	30	+ 2
	1. SCOTLAND, EAST -	6	10	5 more.	80	− 2	9·7	− 2·1	41	+10	35	+ 7	636†	+ 59	35	+ 3
	2. ENGLAND, N.E. - -	5	6	2 more.	82	+ 5	8·4	− 1·1	50	+10	43	+10	619	+103	34	+ 6
	3. ENGLAND, EAST -	4	4	1 less.	77	+ 2	7·3	− 2·0	72	+26	64	+22	681	+ 62	37	+ 3
	4. MIDLAND COUNTIES-	5	8	3 more.	70	− 3	7·7	− 2·9	56	+13	49	+12	654	+110	36	+ 6
	5. ENGLAND, SOUTH -	4	5	1 more.	59	−13	5·9	− 4·8	66	+18	58	+14	737	+157	40	+ 8
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	6	14	7 more.	83	− 5	15·3	− 4·4	33	−11	28	− 9	632	+ 75	34	+ 4
	7. ENGLAND, N.W. - -	5	9	4 more.	81	+ 1	11·8†	− 0·4	40	− 6	35	− 5	650	+102	35	+ 5
	8. ENGLAND S.W. - -	4	9	4 more.	75	− 7	10·2	− 5·3	50	− 2	45	− 2	768	+123	42	+ 7
	9. IRELAND, NORTH -	7	18	13 more.	87	− 5	13·0	− 0·6	37	− 8	32	− 7	534	+ 33	32	+ 2
	10. IRELAND, SOUTH -	6	18	12 more.	80	− 7	13·7	− 2·1	42	− 4	37	− 3	664	+ 36	36	+ 2
	— CHANNEL ISLANDS -	5	7	3 more.	80	− 9	11·1	− 1·6	63	+ 4	58	+ 4	838	+ 79	46	+ 4

Bright Sunshine.—For several of the stations there are no "mean" values available, and the "difference from the mean" in some of the districts is consequently that of only a few of the stations.

General Remarks.

Weather was again unsettled and rainy in the western and northern districts, but over the eastern and southern parts of the Kingdom it was generally fine, although somewhat heavy showers occurred at times. Thunderstorms were experienced in nearly all places, generally on the 30th or 31st May.

Temperature just equalled the normal value over Ireland and in the west of Scotland, but exceeded it in all other districts; the excess over Scotland was slight, but over England it varied between 3° and 5°. The highest of the maxima were recorded at most stations on May 31st, when the thermometer rose to between 80° and 84° over central, southern, and eastern England, and to 74° or 75° in the other parts of England; in Ireland and the north and west of Scotland, however, the readings were below 70°. The lowest of the minima, which were registered on June 3rd in the west and north and on the following day over England, ranged from 34° in England S.W. to 45° in the Channel Islands.

Rainfall exceeded the mean in all districts excepting England E.; over Ireland and in the north and west of Scotland the excess was large.

Bright Sunshine was very prevalent and considerably exceeded the mean in eastern, central, and southern England, but in Ireland, the west of England, and the north and west of Scotland, it was rather less than the normal. The percentage of the possible duration ranged from 15 in Scotland N. and 28 in Scotland W., to 58 in England S. and the Channel Islands, and to 64 in England E.

Barometer and Wind.—During the whole of this period the barometer continued highest in the south and south-east, while some well-defined depressions passed northwards or north-eastwards over, or outside, our western and northern coasts, and secondary disturbances appeared at times over the more southern parts of the Kingdom. The winds were consequently mostly from the Southward and South-Westward, and were generally moderate in force. On June 1st, however, strong Southerly winds or slight gales were experienced on some parts of our southern and western coasts, and on the 3rd the wind increased considerably from the Westward in the north of Scotland.

* The corresponding value in last week's report should read "207."

† This value has been altered owing to the receipt of further information.

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213 70 6 | 92 1896

II.—DATA from which the SUMMARY on page 115 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head ⚓	56	43	53·1	44·4	48·5	+ 1·0	46	0	6	1·06	+0·64	*	*	*	*
	Stornoway	57	40	55·1	44·6	49·4	− 0·1	52	0	6	1·48	+0·86	32·3	− 9·2	26	− 9
	Wick	65	43	59·6	46·1	52·4	+ 2·7	73	0	4	0·77	+0·37	*	*	*	*
	Lairg ⚓	65	41	59·4	46·1	52·3	+ 1·7	72	0	6	1·35	+0·84	*	*	*	*
	Glencarron ⚓	65	41	57·4	44·7	50·6	+ 1·0	60	0	7	2·24	+1·09	*	*	*	*
	Fort Augustus ⚓	66	42	58·8	46·3	52·1	+ 0·8	71	0	7	1·20	+0·73	11·7	?	10	?
	Fort William ⚓	61	43	56·9	47·6	51·9	− 0·3	69	0	7	2·09	+1·22	12·0	?	10	?
1. SCOTLAND, E.	Nairn	72	41	62·7	46·1	53·8	+ 1·9	83	0	6	0·44	+0·04	*	*	*	*
	Aberdeen	65	45	61·3	47·4	53·9	+ 2·7	83	0	5	0·69	+0·27	55·1	+ 8·9	46	+ 7
	Braemar ⚓	64	38	56·4	45·2	50·3	+ 1·2	58	0	5	0·86	+0·34	29·0†	?†	24†	?†
	Ochtertyre ⚓	69	37	61·1	45·6	52·8	+ 1·1	76	0	7	1.97	+1·39	*	*	*	*
	Leith	72	45	63·9	48·1	55·5	+ 2·8	95	0	6	0·59	+0·23	*	*	*	*
	Marchmont ⚓	70	39	60·4	45·6	52·5	+ 1·6	74	0	7	1·30	+0·77	38·5	?	33	?
2. ENGLAND, N.E.	Alnwick Castle	66	45	62·4	49·6	55·6	+ 4·8	95	0	5	1·14	+0·74	*	*	*	*
	Durham	74	43	65·8	48·4	56·6	+ 4·6	102	0	5	0·40	−0·04	53·9	+13·4	46	+12
	Shields	70	48	65·1	50·7	57·4	+ 5·7	108	0	5	0·32	−0·06	*	*	*	*
	Scarborough ⚓	69	44	65·3	49·5	56·9	+ 4·4	104	0	6	1·01	+0·57	*	*	*	*
	York	76	45	67·3	50·7	58·4	+ 4·9	115	0	6	0·55	+0·07	52·3	+11·3	45	+ 7
	Spurn Head	69	47	65·4	51·1	57·8	+ 5·1	111	0	3	0·12	−0·23	*	*	*	*
3. ENGLAND, E.	Hillington ⚓	83	38	70·7	48·4	59·1	+ 4·9	120	0	4	0·37	−0·08	83·5	+35·5	73	+32
	Yarmouth	67	46	64·0	51·6	57·4	+ 4·1	108	0	4	0·48	+0·06	*	*	*	*
	Geldeston	77	42	68·7	49·5	58·4	+ 4·5	115	0	3	0·27	−0·13	76·8	+24·4	68	+23
	Cambridge	84	38	71·4	48·6	59·2	+ 4·1	120	0	4	0·26	−0·24	68·9	+22·7	61	+20
	Rothamsted	80	39	68·5	49·2	58·2	+ 4·5	113	0	5	0·51	+0·01	60·3	?	53	?
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	77	42	68·3	48·0	57·4	+ 3·2	108	0	4	0·50	+0·01	*	*	*	*
	Loughborough	75	45	68·7	50·4	58·9	+ 3·8	118	0	6	0·45	−0·05	*	*	*	*
	Stamford (Ketton Hall)	80	40	69·7	47·9	58·0	+ 2·8	112	0	4	0·38	−0·10	*	*	*	*
	Cheadle ⚓	75	42	64·8	47·7	55·7	+ 4·0	96	0	5	0·88	+0·27	*	*	*	*
	Churchstoke ⚓	76	43	65·0	48·8	56·3	+ 3·9	100	0	5	1·29	+0·79	64·3	+21·2	56	+18
	Hereford ⚓	79	41	68·5	48·9	58·0	+ 3·3	112	0	4	0·83	+0·35	*	*	*	*
	Cirencester	73	37	65·1	46·6	55·2	+ 1·6	92	0	5	1·21	+0·69	53·2	+ 7·4	47	+ 7
	Oxford	72	43	66·0	50·3	57·6	+ 3·0	109	0	5	0·81	+0·32	51·1	+ 6·1	45	+ 6
5. ENGLAND, S.	London	83	43	70·3	51·0	60·0	+ 4·0	126	0	4	0·28	−0·19	64·8†	+21·3†	57†	+18†
	North Foreland	70	47	66·1	50·7	57·9	+ 4·3	111	0	3	0·30	?	*	*	*	*
	Strathfield Turgiss ⚓	80	38	68·8	48·1	57·7	+ 2·9	110	0	4	0·79	+0·37	*	*	*	*
	Dungeness	76	44	62·9	50·9	56·5	+ 1·7	102	0	3	0·40	+0·02	*	*	*	*
	Hastings (St. Leonards)	73	46	62·8	51·0	56·6	+ 1·2	102	0	3	0·44	+0·02	69·3	+14·3	62	+12
	Southampton	73	44	66·6	51·6	58·6	+ 2·6	116	0	4	0·70	+0·13	62·5	+13·2	56	+13
	Hurst Castle	67	45	63·1	52·0	57·2	+ 2·0	106	0	5	0·79	+0·37	*	*	*	*
	Stowell ⚓	74	38	64·1	48·2	55·6	+ 1·3	95	0	5	0·63	?	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	63	42	59·7	47·0	52·9	+ 0·5	76	0	7	1·63	+0·61	*	*	*	*
	Glasgow	68	45	60·5	48·3	54·0	+ 1·5	84	0	7	1·32	+0·79	26·7	− 9·6	23	− 8
	Ardrossan	60	45	55·9	48·3	51·8	− 0·9	69	0	5	0·88	+0·35	*	*	*	*
	Glenlee ⚓	66	40	59·6	45·5	52·1	+ 0·4	71	0	7	1·96	+1·28	*	*	*	*
	Douglas (Isle of Man)	61	45	56·7	48·0	52·1	− 0·5	71	0	4	1·21	+0·64	38·3	−13·2	33	−11
7. ENGLAND, N.W.	Newton Reigny	71	43	61·5	48·5	54·6	+ 3·5	88	0	6	0·86	+0·41	40·4	− 6·6	35	− 8
	Stonyhurst	73	46	63·2	50·1	56·2	+ 2·7	99	0	5	1·18	+0·52	34·8	−10·2	30	− 9
	Blackpool ⚓	69	49	64·1	? 52·3	? 57·8	? + 4·1	? 111	0	4	0·88	+0·38	37·6	− 8·5	33	− 7
	Manchester	75	46	65·5	51·1	57·8	+ 4·7	111	0	6	1·02	+0·40	*	*	*	*
	Liverpool Obsy. (Bidston)	73	47	64·6	51·7	57·7	+ 3·0	110	0	4	0·67	+0·26	*	*	*	*
	Llandudno ⚓												45·9	+ 2·2	40	+ 2
	Holyhead	65	47	58·9	49·4	53·8	+ 0·1	83	0	4	0·83	+0·39	*	*	*	*
8. ENGLAND, S.W.	Llandovery	74	34	64·3	48·4	55·8	+ 1·4	97	0	5	0·90	+0·25	*	*	*	*
	Pembroke	57	47	55·7	50·1	52·7	− 0·5	75	0	5	0·83	+0·38	50·0	− 2·1	44	− 2
	Arlington (N. Devon)	66	40	60·7	47·9	53·9	+ 1·5	83	0	5	1·29	+0·58	*	*	*	*
	Cullompton ⚓	71	35	65·0	47·6	55·7	+ 1·6	96	0	3	0·77	+0·27	51·1	+ 4·4	46	+ 5
	Falmouth	62	46	61·0	50·4	55·0	+ 0·8	91	0	2	1·16	+0·56	51·1	− 0·3	46	− 1
	Plymouth	66	45	59·5	51·2	55·1	+ 1·6	92	0	4	0·95	+0·51	41·0	− 6·9	37	− 6
	Prawle Point	60	48	58·0	50·3	53·9	+ 0·4	83	0	4	0·35	0·00	*	*	*	*
9. IRELAND, N.	Malin Head	65	43	57·0	47·6	52·0	− 1·5	70	0	7	2·16	?	*	*	*	*
	Londonderry	?	42	?	46·9	?	?	?	0	7	1·87	+1·31	*	*	*	*
	Mullaghmore	67	45	58·1	48·6	53·0	− 0·7	77	0	7	1·61	+1·00	*	*	*	*
	Belmullet	62	45	57·3	48·6	52·7	− 1·0	75	0	6	1·11	?	*	*	*	*
	Markree Castle	66	40	59·4	45·8	52·1	+ 0·4	71	0	7	2·02	+1·49	36·1	− 4·8	31	− 3
	Brookeborough	66	41	59·6	45·6	52·1	− 0·5	71	0	7	1··0	+1·18	*	*	*	*
	Armagh	66	42	60·4	47·2	53·3	+ 0·6	79	0	7	1·71	+1·25	31·5	−10·5	27	−10
	Donaghadee	65	47	59·7	50·4	54·7	+ 2·0	89	0	7	1·67	+1·16	*	*	*	*
	Edgeworthstown	?	40	?	46·0	?	?	?	0	7	2·30	+1·62	*	*	*	*
10. IRELAND, S.	Dublin	68	44	63·2	50·2	56·3	+ 1·8	100	0	6	0·56	+0·52	37·3	− 9·9	33	− 9
	Parsonstown	67	40	61·3	47·9	54·1	+ 0·6	85	0	7	1·48	+0·97	37·6	− 4·6	33	− 3
	Kilkenny	64	38	60·7	47·0	53·4	− 1·1	80	0	7	1·95	+1·48	*	*	*	*
	Waterford	62	40	60·5	48·3	54·0	− 0·5	84	0	4	2·18	+1·65	*	*	*	*
	Roche's Point	60	45	57·9	49·9	53·6	− 1·3	81	0	6	2·40	+1·70	*	*	*	*
	Valencia	62	43	59·9	49·3	54·2	− 0·3	85	0	7	1·64	+0·94	50·2	+ 2·4	44	+ 2
	Killarney	65	38	60·7	48·6	54·2	+ 0·5	85	0	7	2·70	?	*	*	*	*
	Foynes	66	42	61·0	50·0	55·1	+ 1·5	92	0	7	1·08	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	63	49	61·4	51·9	56·3	+ 1·7	100	0	4	0·68	+0·30	*	*	*	*
	Jersey	73	45	66·0	53·0	59·1	+ 3·4	120	0	5	0·66	+0·24	60·0	+ 3·6	55	+ 4

⚓ Stations marked ⚓ are in connection with the Royal Meteorological Society, and those marked ⚓ with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

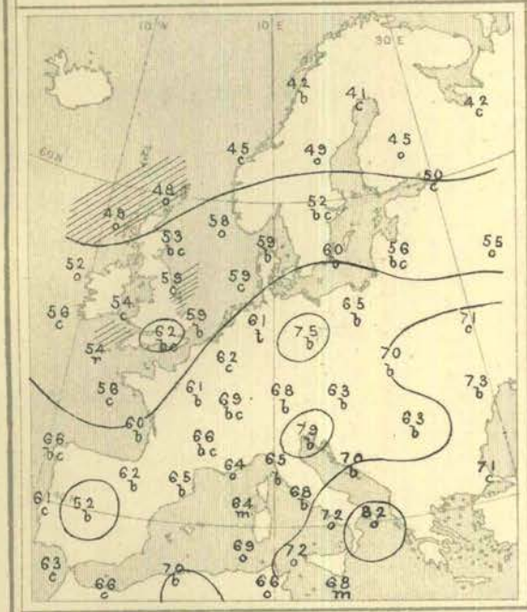
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory and the Meteorological Office, Victoria Street. For additional Reports of Sunshine see last page.

III.—SUMMARY OF WEATHER OVER EUROPE.

Sunday, 29th May.

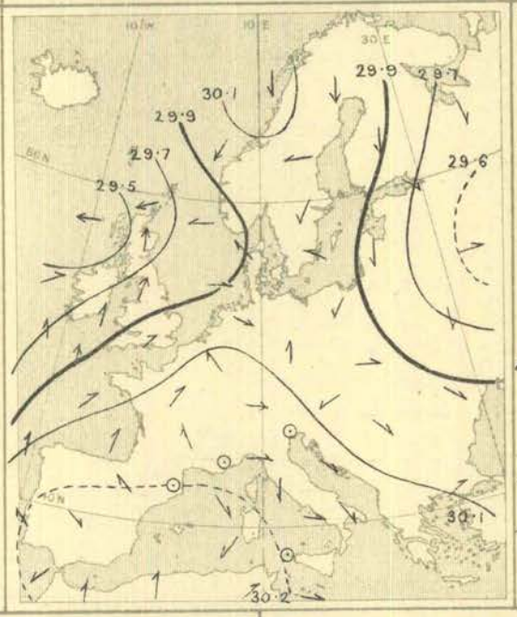
Temperature and Weather.

8 a.m.

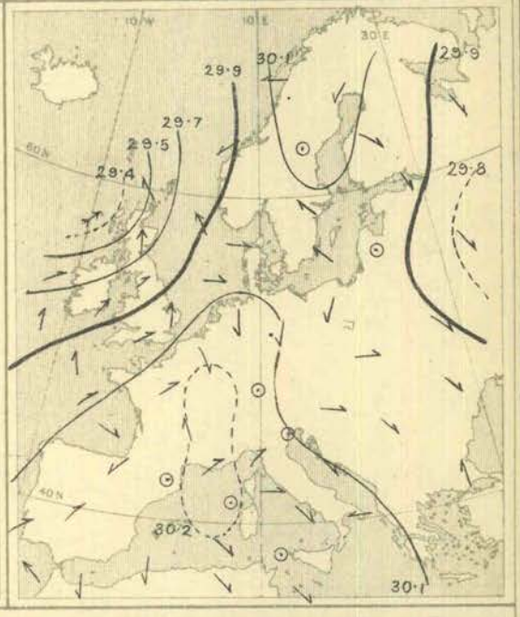


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over western, southern, central and south-eastern Europe, dull and showery in the west and north of the British Isles, cloudy over Russia and northern Europe. Some rain later in Ireland, Wales, and the west and north of England, and local showers in some parts of France; fall slight except in some parts of Ireland, where it varied from a quarter to half an inch. Violent thunderstorms occurring in some parts of western and southern Germany.

Temperature much lower than of late over Ireland, England, France, and many of the Mediterranean coasts. Morning readings highest, 82° at Brindisi, 70° and more over Germany, 60° to 72° at the Mediterranean stations, 59° to 60° over the greater part of the British Isles, lower elsewhere. Lowest, 40° to 42° over the north-western half of Scandinavia, 42° at Archangel, 48° in the extreme north of Scotland. Rising later to between 70° and 80° at most French stations, and to between 60° and 70° over Ireland, England, the east of Scotland, and Sweden; exceeding 80° in Italy and the south and east of France, the highest European reading being 91° at Nancy.

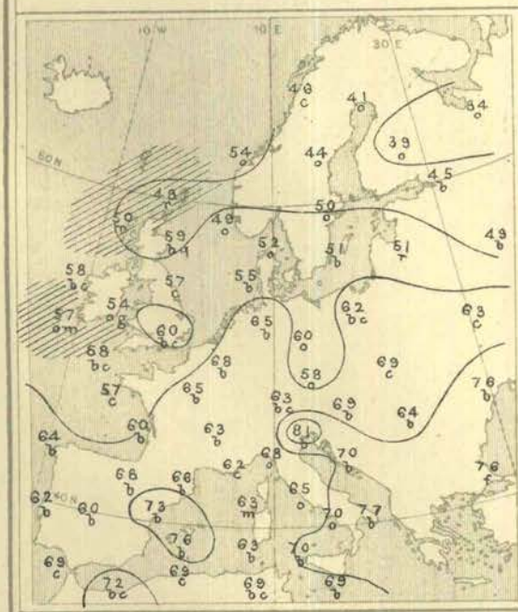
Wind (1) Southerly to South-Westerly moderate to strong over Ireland and England, Easterly fresh in the north of Scotland and west of Norway; (2) Northerly, moderate to light over Lapland, Finland, and the Baltic Provinces; (3) very light and variable elsewhere. Becoming more Westerly in Ireland later, shifting to South-West in Scotland, and blowing a fresh gale locally at Stornoway.

Barometer highest, (1) 30·2 ins. to 30·0 ins. in a complex anticyclone covering south-western, southern, south-eastern, and central Europe; (2) 30·1 ins. and more to 30·0 ins. in another over Lapland, Sweden, and the north of Norway. Lowest, 29·6 ins. and less in a large shallow depression over central Russia, 29·5 ins. and less in another system over the west of Scotland and neighbouring parts of Atlantic. Russian depression subsequently moving eastwards; latter disturbance passing away in a north-north-westerly direction to the northward of Scotland.

Monday, 30th May.

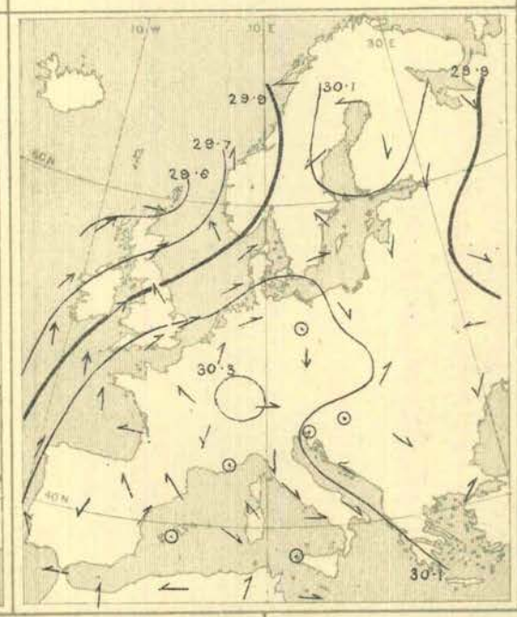
Temperature and Weather.

8 a.m.

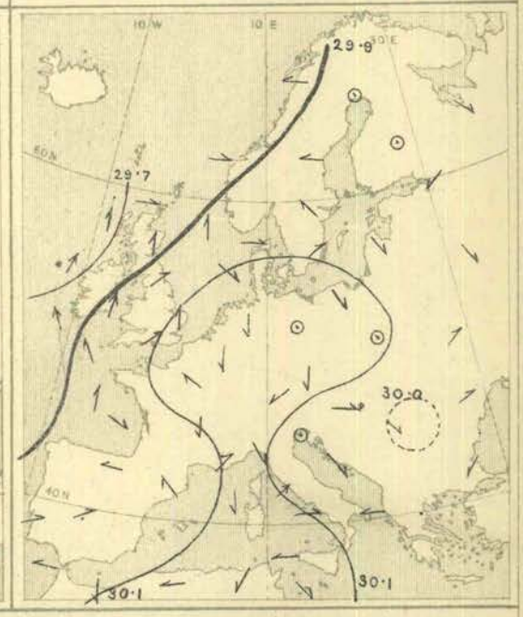


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over the Mediterranean, south-western, central, and south-eastern Europe, cloudy in the north and north-west, with rain in places—chiefly in Ireland. Rain later at many of our western and northern stations and over Scandinavia, as well as in some parts of France and Russia; heavy local fall at Wiesbaden; thunder in some parts of Ireland and England.

Temperature risen over most of the western countries, fallen in the east. Morning readings exceeding 70° at several Mediterranean stations and in the south of Russia, and exceeding 60° over western and central Europe with the eastern counties of England; exceeding 50° all over Ireland and Great Britain, lower elsewhere. Lowest, 34° at Archangel, 39° at Kuopiö, 41° at Haparanda, 44° at Hernösand. Rising during day to between 72° and 76° over the central and south-eastern parts of England, and exceeding 80° at many of the French and German stations, as well as over the greater part of southern and eastern Europe; highest readings of all 88° at Rochefort and Hermanstadt, and 86° at Bordeaux and Buda Pesth.

Wind moderate or fresh from the Southward or South-Westward over the greater part of our Islands and the North Sea, and South-Easterly in the west of Norway, but Westerly in Caithness and the Shetlands. Light from the Northward and North-Westward in most parts of Russia and Italy, as well as at many of the German and Austrian stations. South-Easterly or Easterly in France and Southerly in Algéria. Subsequently becoming variable in the west of France and also in Italy; no important change occurring elsewhere.

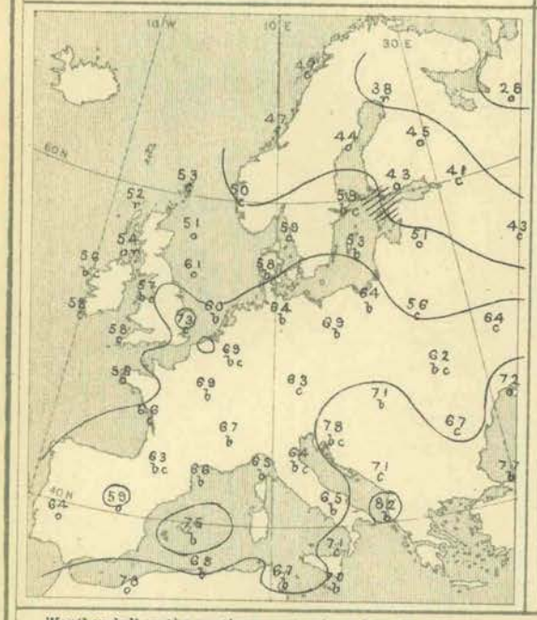
Barometer highest, 30·1 ins. to 30·3 ins. in a large anticyclone covering France, Germany, the south and east of England, and the greater part of southern Europe, as well as in another system lying over Finland and the north of Scandinavia. Lowest, 29·6 ins. and less in a depression lying off the north of Scotland; gradients moderate over our Islands and the North Sea, but slight elsewhere. Depression in north subsequently passing away from our area, but slight local irregularities in pressure beginning to appear over France and the Bay of Biscay.

Judd & Co Ltd, Lith. 63, Carter Lane, Doctors' Commons.

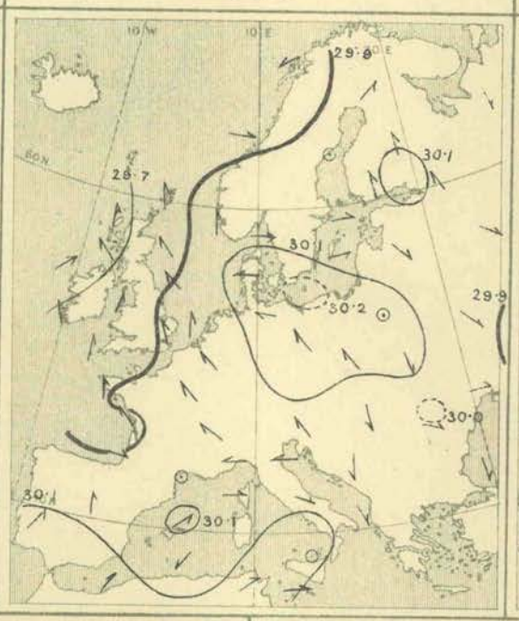
III.—SUMMARY OF WEATHER OVER EUROPE.

Tuesday, 31st May.

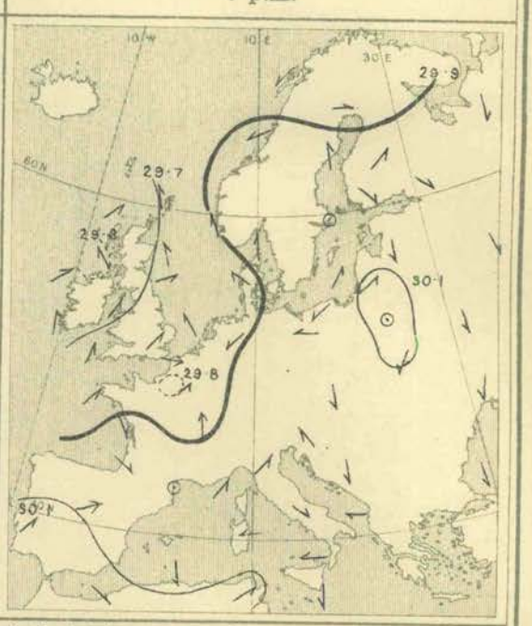
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather dull on the northern parts of our Islands, with rain at Stornoway and Malin Head; dull also over Russia, the north of Scandinavia, the north-west of France, and some parts of Italy, with rain in a few isolated localities. Fine and bright over most other parts of Europe, but a solar halo reported at Jersey, and distant thunder heard at Hurst Castle. Thunderstorms occurring later at most of the English stations, as well as in France and south Germany, and heavy rain falling in the north of Ireland.

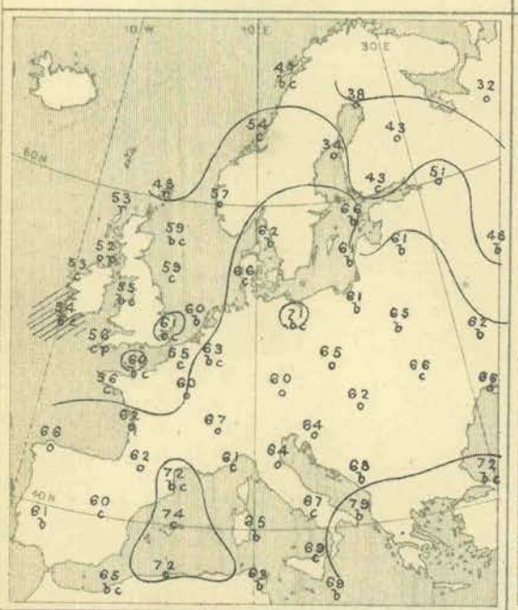
Temperature highest, (1) 82° at Brindisi, 78° at Trieste, 77° at Constantinople, and 76° at Palermo; (2) 73° in London and at Cambridge, and 71° at Cape Gris Nez; above 60° over the greater part of England and in almost all parts of central and southern Europe. Lowest, 28° at Archangel, 38° at Haparanda, 41° at St. Petersburg, and 42° at Ulcaborg; below 50° over the northern parts of Russia and Scandinavia generally, and very little above it in the north and east of Scotland. Rising during day to a little above 80° in Germany and the inland parts of the south-east of England, and reaching 88° at Paris, and 93° at Dunkirk, but not exceeding 70° at Lisbon.

Wind light and moderate from the South in the west and north of our Islands, and from the South-East over England, France, the Netherlands, and Germany. Westerly at most of the Scandinavian stations; variable in Russia and the eastern and southern parts of Germany; North-Westerly or Northerly in Austria and Italy; variable in Algeria; South-Westerly or Southerly in Spain and Portugal. Subsequently veering to the South-West or West in the extreme south of England, and blowing strongly on the Kentish coasts; shifting to the North-West in the west of France. (The newspapers report the occurrence of a whirlwind at Blakeney, Forest of Dean, in the afternoon.)

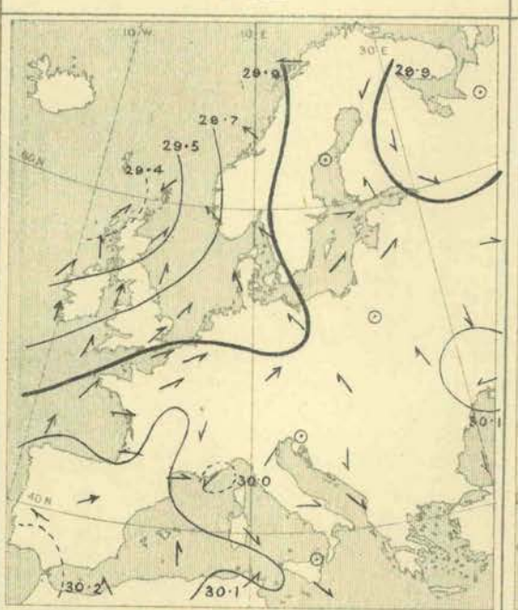
Barometer highest, 30·0 ins. to 30·2 ins. in a large anticyclone covering the whole of central and southern Europe, and spreading northwards as far as the southern parts of Scandinavia; 30·0 ins. to 30·1 in a separate area lying to the westward of our Islands. Small shallow depressions advancing northwards over France and England during the day; barometer rising over the Channel and west of France in evening.

Wednesday, 1st June.

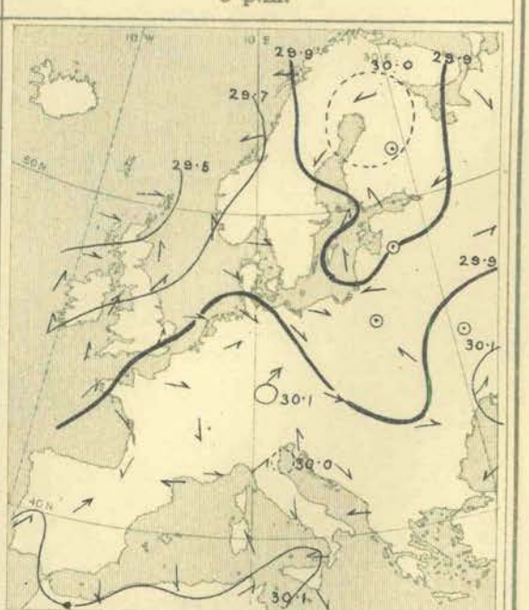
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the Mediterranean, south-eastern Europe, and central Russia, also in many parts of England, the north of France, Denmark, and north Germany; cloudy or overcast in most other places, and very showery in the west and north of our Islands. Very changeable in our Islands later, much rain in the west at night, and fall extending eastwards during night, slight showers in north; thunderstorm at Lyons, as well as in many parts of Germany.

Temperature fallen decidedly over the British Islands and France. Morning readings 79° at Brindisi, exceeding 70° at Constantinople and several Algerian and eastern Spanish stations, exceeding 60° over central Europe and the eastern counties of England, lower elsewhere, but below 50° over Lapland and the north of Russia only. Lowest, 32° at Archangel, 38° at Haparanda, 43° at Knopio and Hangö, 48° at Moscow. Rising later to 80° and more over the southern parts of France and Italy, to 71° at Cambridge, 69° in London, and 68° in the north of England, not touching 60° in the south of Ireland.

Wind light and extremely variable over Russia, Poland, and south-eastern Europe, moderate and variable from West and South-West over France, and from South-East over western Germany, the eastern shores of the North Sea and Norway, Southerly and South-Westerly moderate to fresh over the British Isles; backing Southwards on our western and south-western coasts later. No important change occurring elsewhere.

Barometer highest, 30·2 ins. and more to 30·0 over south-western and southern Europe, and 30·1 and more to 30·0 ins. over the southern half of Russia. Lowest, 29·4 ins. and less in a depression off the north-west coasts of the British Islands, 29·8 ins. and less over northern Russia; 30·0 ins. and less in a small depression off Cape Sicié. Depression in north-west, moving north-eastwards later, but a new one beginning to approach our south-western coasts.

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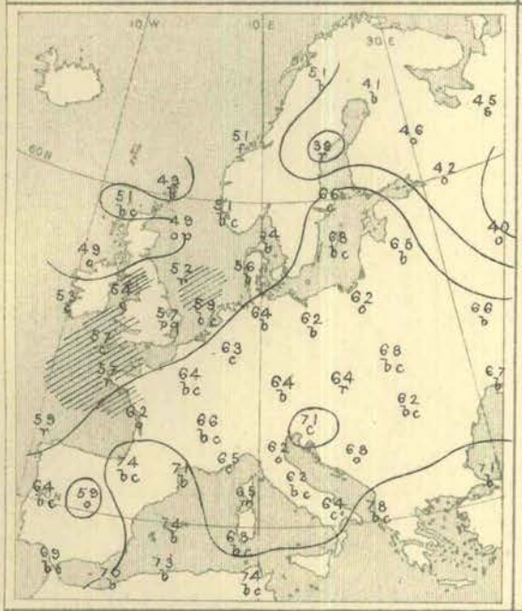
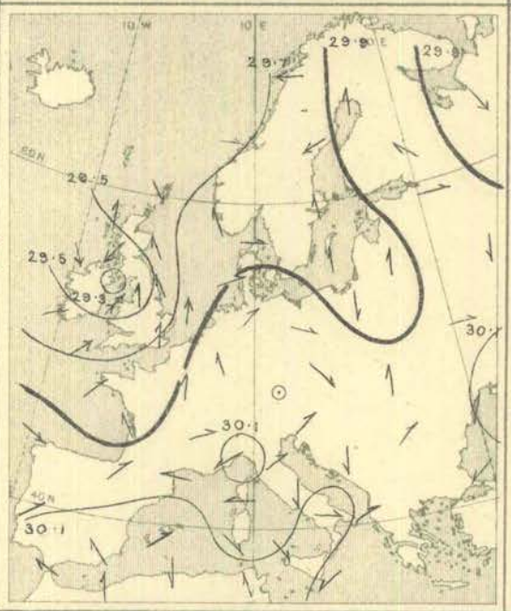
Thursday, 2nd June.

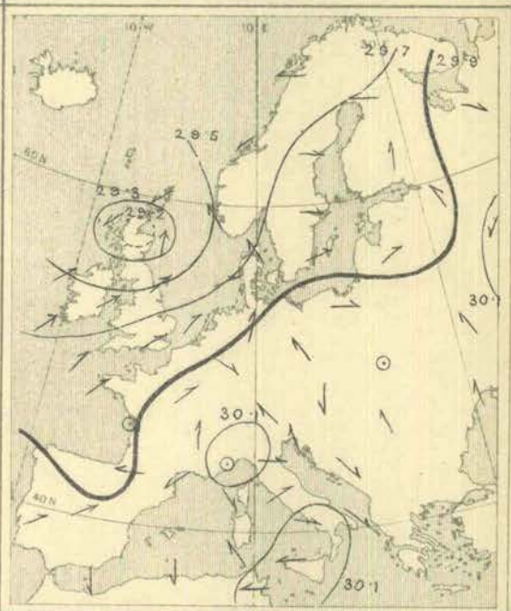
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather dull and rainy over the greater part of the United Kingdom and also in the north-west of France, but fine in the south of Ireland and also in the north of Scotland. Fine at most of the Continental stations, but dull over the northern and central parts of Russia, with snow at Archangel. Decided improvement taking place later over all the more southern parts of the United Kingdom, but rain falling in the north of Scotland; thunder heard at Mullaghmore in evening. Thunderstorms occurring in some parts of France, and heavy rain falling at Corunna.

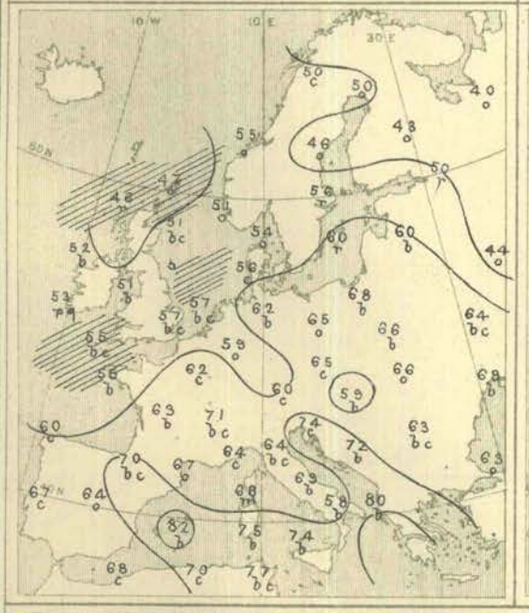
Temperature highest, 78° at Brindisi, 76° at Barcelona, and 74° at Biarritz, Palma, and La Calle; above 65° in most parts of southern and eastern Europe, and also over the Baltic and eastern Germany. Lowest, 39° at Hernösand, 40° at Moscow, 41° at Haparanda, 42° at St. Petersburg, and 45° at Archangel, below 50° over the northern parts of Russia and Sweden generally, and also in the north-west of our Islands. Rising during day to a little above 65° in the central parts of England, and to 80° or more at several of the French, German, and Italian stations; reaching 86° at Biarritz, and 87° at Lyons; exceeding 90° in central Algeria.

Wind strong from the Southward or South-Westward over England and Wales, with a gale at Holyhead and Hurst Castle, moderate from the same quarters over the Netherlands and the west and north of France, light from the South-Eastward or Eastward in Scotland, strong from between North-East and North-West in the north of Ireland, varying between South and East over Scandinavia and the Baltic, light from the Westward over central Europe, and also in Spain, variable in Italy, chiefly Southerly in Algeria. Subsequently veering to the Westward at many of the English stations, but backing to the North-Eastward in the north of Scotland.

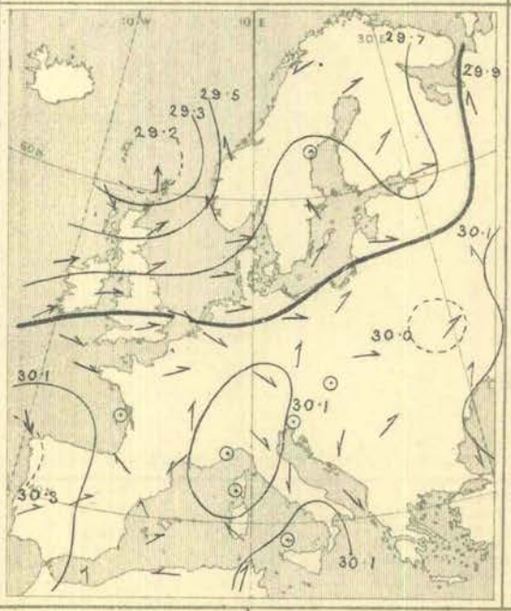
Barometer highest, 30·0 ins. to 30·15 ins. in a large anticyclone covering the whole of central, southern, and eastern Europe, and extending northwards in the form of a long band across central Russia to Finland. Lowest, 29·3 ins. and less in a well marked and rather deep depression having its centre over the Irish Sea near to Donaghadee. Depression subsequently travelling in a north-north-easterly direction across Scotland, and barometer rising at all the English and Irish stations.

Friday, 3rd June.

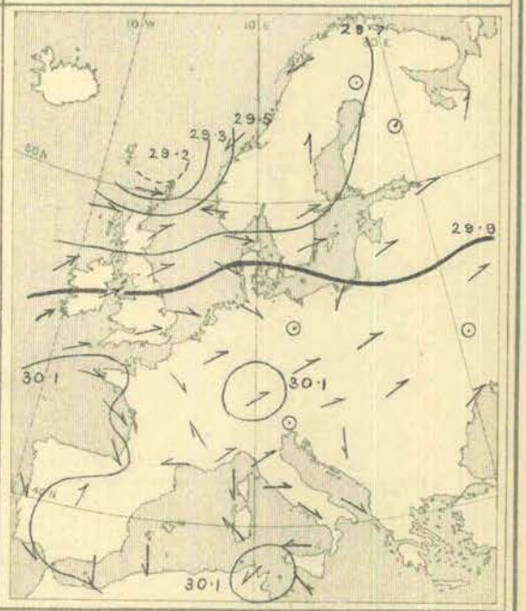
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather fine and bright over England and the east of Ireland, as well as in most parts of central, southern, and eastern Europe; cloudy and showery in the west and north of Ireland, dull in the north of Scotland, and also over Scandinavia, Denmark, and northern Russia, with rain in many places. Improvement taking place later in the west of Ireland and the north of Scotland. Thunderstorms with heavy rain occurring over Germany and the southern parts of France.

Temperature highest, 82° at Palma, 80° at Brindisi, 79° at Aumale, 77° at La Calle, and 75° at Cagliari; above 70° at most of the Mediterranean and Adriatic stations, and above 65° over the south of Russia and some parts of eastern Germany. Lowest, 40° at Archangel, 43° at Kuopio, 44° at Uleaborg and Moscow, and 48° at Haparanda and Stornoway, below 50° in the extreme north and north-west of our Islands generally. Rising during day to between 65° and 67° over the eastern and central parts of England, exceeding 70° in France and Germany, and exceeding 80° in many parts of southern Europe, the highest readings of all being 88° at Gap, and 86° at Lyons and Rome.

Wind moderate to fresh from the South-Westward or Westward over the greater part of our Island and the North Sea, but North-Westerly in the Hebrides, Southerly in the Shetlands, and South-Easterly in the west of Norway; light from the Southward over Sweden and the Baltic, and also over central Russia, but Westerly over the Gulf of Finland; variable over Spain, France, and central Europe, but Northerly or North-Westerly in Italy, and Southerly in Algeria. No important change occurring during day, but wind increasing to a moderate gale from the Westward in the north of Scotland.

Barometer highest, 30·0 ins. to 30·15 ins. in a large anticyclone covering all the more southern and eastern parts of Europe. Lowest, 29·2 ins. and less in well marked depression lying off the north of Scotland. Gradients rather steep over our extreme northern coasts. Depression subsequently travelling away slowly in a north-easterly direction, and barometer rising in all parts of western Europe.

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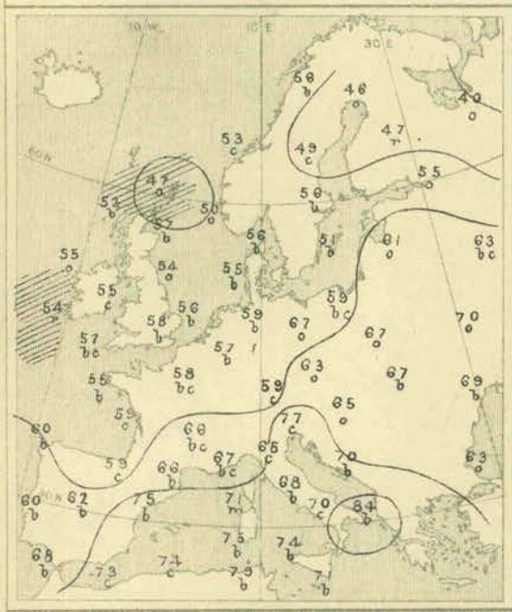
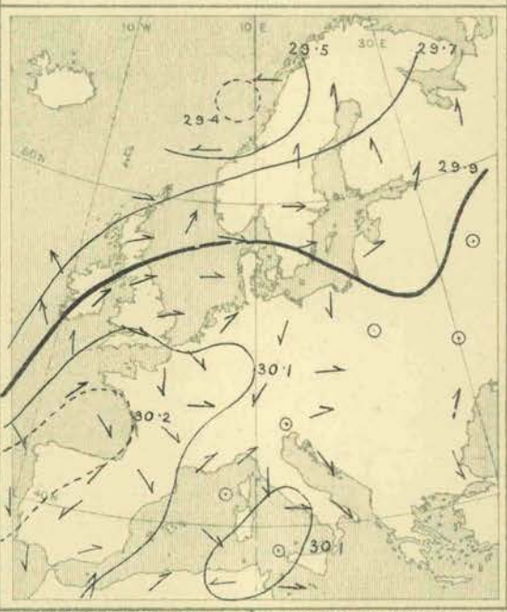
III.—SUMMARY OF WEATHER OVER EUROPE.

Saturday, 4th June.

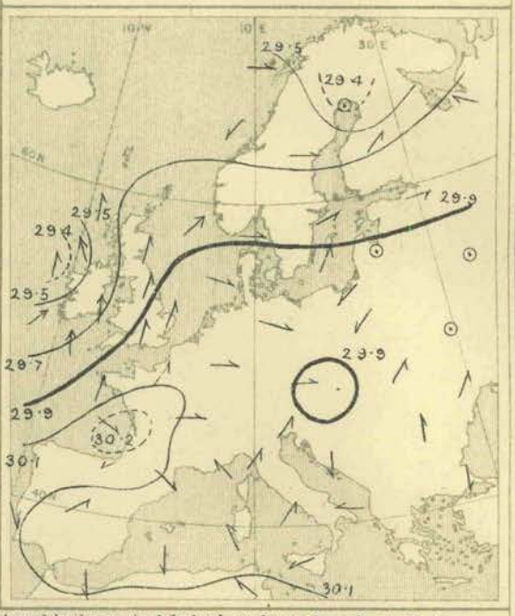
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather fine and bright over Great Britain and a considerable portion of the continent, dull in Ireland, with rain at Valencia Island; dull also over northern Russia and some parts of Germany, with rain at Kuopio. Rain spreading later from the westward to all parts of the United Kingdom, the Netherlands, and western Germany; amounts large in the south of Ireland. Thunderstorms occurring at Lyons during day, and also over south Germany.

Temperature highest, 84° at Brindisi and Aumale, 79° at La Calle, 77° at Trieste, and 75° at Barcelona and Cagliari; above 76° at most of the Mediterranean and Adriatic stations, and above 65° over Austria and the south of Russia. Lowest, (1) 40° at Archangel, 46° at Haparanda, 47° at Kuopio, and 49° at Hernösand; 47° at Sumburgh Head, and 55° at Malin Head. Rising during day to 65° or a little more over the inland parts of England, exceeding 70° in France, and exceeding 80° in many parts of Spain, Italy, and Austria, the highest readings of all being 88° at Pesaro, Sanguinaire, and Hermanstadt.

Wind strong from the South-Eastward in the west of Ireland, moderate from South-West over England and the east of Scotland, fresh or strong from the Westward in the north of Scotland, as well as over Denmark and the Baltic; light from the Southward in Finland and the north Sweden, variable over Germany, Austria, and the south of Russia; North-Westerly in France, and Northerly in Spain, but Westerly in Italy, and Southerly in Algeria. Subsequently increasing to a strong breeze or moderate gale from the Southward on all our western coasts; no important change elsewhere.

Barometer highest, 30·2 ins. and upwards over the Bay of Biscay and the north-western half of the Spanish peninsula, 30·0 ins. and upwards in a large anticyclone covering all the more central, southern, and eastern parts of Europe. Lowest, 29·4 ins. and less in a depression lying off the north-west of Norway, 29·7 ins. and less in another system lying some distance to the westward of Ireland. Depression in west subsequently advancing eastward, and barometer falling in nearly all parts of the United Kingdom. Norwegian disturbance travelling away to the north-eastward.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟿ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During the whole week a large anticyclone covered the more southern and eastern part of the continent, while a series of barometrical depressions moved in a north-north-easterly direction outside, or over, the west coasts of our Islands. Light variable breezes and fine warm weather were therefore prevalent in the former regions, but over western Europe the wind was chiefly Southerly, with showery weather in most districts, and with a good deal of steady rain in the western and northern parts of the United Kingdom. The depression, which traversed the St. George's Channel, the Irish Sea, and Scotland on the 2nd of June was of considerable depth for the time of year, and occasioned fresh Southerly gales on some of the more exposed parts of the English and Welsh coasts. Between the 31st May and the 2nd June, when shallow secondary disturbances appeared over England, France, and Germany, smart thunderstorms were experienced in many parts of these countries, the accompanying rainfall being in many cases of considerable weight.

BRIGHT SUNSHINE Values for the Week in addition to those found on page 128.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	40·9	?	35	?	EASTBOURNE	67·5	?	60	?
OSWALDKIRK (Yorkshire)	44·1	?	38	?	TENBY	53·0 *	?	47 *	?
WORKSOP	52·7	+13·8	46	+11	NEWQUAY				
THURCASTON (Leicestershire)	59·0	+18·2	52	+18	TORQUAY	51·9 *	?	47 *	?
MARGATE	67·7	?	60	?	ARLEY COTTAGE (County Cavan)	42·4	?	37	?
WESTBOURNE (Sussex)	62·7 *	?	56 *	?	GUERNSEY	66·3 *	?	60 *	?
BRIGHTON	65·5	?	58	?					

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.
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VOL. IX. No. 23.] *Third Series.* WEEK ENDING SATURDAY, 11TH JUNE, 1892. [*Price* 6*d.* [*Annual subscription post paid*, £1 10*s.* 0*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years' observations (1871-90). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the ten years 1881-90. RAINFALL.—*The Mean amounts* are those for the corresponding periods in the twenty-five years 1866-90, but the *Mean numbers of Rainy Days* are those for the ten years 1881-90, only. BRIGHT SUNSHINE.—*The Mean values* employed are those for the corresponding periods in the ten years 1881-90.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 134.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1892. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	79	41	62·3	47·3	54·5	3 above.	88	+30	0	− 2	489	+48	748	+207
	1. SCOTLAND, EAST	83	36	65.2	47·7	55·8	3 above.	97	+21	0	0	610	+ 9	836	+237
	2. ENGLAND, N.E.	81	41	64·1	49·6	56·4	3 above.	101	+22	0	− 1	658	+63	684	+186
	3. ENGLAND, EAST	85	44	68·9	48·7	58·1	3 above.	113	+20	0	− 1	802	+45	768	+207
	4. MIDLAND COUNTIES	83	41	72·0	48·8	59·6	4 above.	123	+31	0	0	875	+95	796	+244
	5. ENGLAND, SOUTH	83	40	68·3	50·5	58·8	2 above.	118	+19	0	0	873	+27	554	+138
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	79	40	65·4	47·7	57·1	3 above.	106	+27	0	0	665	+39	609	+193
	7. ENGLAND, N.W.	80	43	67·6	50·7	58·5	4 above.	116	+31	0	0	715	+54	579	+165
	8. ENGLAND, S.W.	84	43	67·4	51·4	58·8	3 above.	118	+28	0	0	861	+56	433	+117
	9. IRELAND, NORTH	79	44	65·1	51·1	57·6	4 above.	109	+28	0	0	739	+18	484	+122
	10. IRELAND, SOUTH	77	46	68·5	52·0	59·7	4 above.	124	+35	0	0	906	+40	410	+132
	— CHANNEL ISLANDS	72	46	63·5	52·6	57·7	1 above.	110	+14	0	0	946	+31	164	+ 42

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 134.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1892. Number of Rainy Days.	Difference from Mean.	Total Fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1892. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of In.	10ths of In.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	2	2	4 less.	109	+ 2	18·3	− 1·6	37	− 9	31	− 7	589	+ 40	30	+ 2
	1. SCOTLAND, EAST	3	4	1 less.	83	− 2	10·1	− 2·2	51	+ 6	42	+ 5	687	+ 68	35	+ 3
	2. ENGLAND, N.E.	3	7	3 more.	85	+ 5	9·1	− 0·8	56	+16	47	+13	675	+123	34	+ 6
	3. ENGLAND, EAST	2	3	2 less.	79	+ 1	7·6	− 2·2	68	+18	60	+18	749	+ 84	38	+ 4
	4. MIDLAND COUNTIES	2	3	2 less.	72	− 4	8·0	− 3·1	74	+31	65	+29	728	+146	37	+ 7
	5. ENGLAND, SOUTH	1	1	3 less.	60	−16	6·0	− 5·1	73	+26	64	+21	810	+188	42	+10
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	2	7	0 (average)	85	− 6	16·0	− 4·4	45	0	38	+ 1	677	+ 78	35	+ 4
	7. ENGLAND, N.W.	2	5	1 less.	83	0	12·3	− 0·4	67	+21	58	+19	717	+126	37	+ 7
	8. ENGLAND S.W.	1	less than ½.	5 less.	76	−10	10·2	− 5·8	69	+17	62	+17	838*	+148	43	+ 7
	9. IRELAND, NORTH	2	11	6 more.	89	− 7	14·1	− 0·1	47	+ 5	40	+ 5	631	+ 45	32	+ 2
	10. IRELAND, SOUTH	1	1	5 less.	81	−10	13·8	− 2·6	58	+13	50	+11	722	+ 56	37	+ 3
	— CHANNEL ISLANDS	1	less than ½.	4 less.	81	−12	11·1	− 2·0	71	+21	65	+20	909	+104	47	+ 5

Bright Sunshine.—For several of the stations there are no "mean" values available, and the "difference from the mean" in some of the districts is consequently that of only a few of the stations.

General Remarks.

Weather was fine and warm during the greater part of the week, but changeable and unsettled at the beginning, and also at the close of the period. Thunderstorms occurred in many parts of England on the 5th, and in a few isolated places on the 10th. On the latter date severe thunderstorms, accompanied by very heavy falls of rain, were experienced in the north of Ireland.

Temperature was above the mean in all districts, the excess ranging in most instances between 2° and 4°. The highest readings were recorded mainly on the 9th or 10th, when the thermometer exceeded 80° in all but the extreme northern parts of Great Britain; in England E. (at Cambridge) it rose to 85°. A very sudden fall occurred in the north at the close of the week, the maximum readings at some of the Scotch stations being more than 30° lower on the 10th than on the 9th. The lowest readings occurred on various dates in the different districts, but in the northern parts of the Kingdom they were observed mostly on the 11th; over the country generally, the absolute minima ranged between 40° and 45°, but in Scotland E. the thermometer fell to 36°.

Rainfall was a little less than the mean in most districts, but more in England N.E., and Ireland N., and the Channel Islands, the amount agreed with the average.

Bright Sunshine was above the average in all districts excepting Scotland N., the excess being large over the greater part of England, where the percentage of possible duration exceeded 60. In the midland counties and the Channel Islands the percentage was as high as 65, and in England S. it reached 64, but in Scotland N. it did not exceed 31.

Barometer and Wind.—At the beginning of the week a complex depression passed over our northern districts, the wind being variable in its immediate neighbourhood but fresh from the South-Westward or Westward on our southern coasts. On the 6th, however, a large high pressure system spread over our Islands from the southward, and for the next few days an anticyclonic circulation of light winds was prevalent. Towards the close of the week the anticyclone broke up, and shallow areas of less pressure appeared over various parts of the United Kingdom, the wind being light in force, mostly from the North-Eastward in the north, but from the South-Westward in the south.

* This value has been altered owing to the receipt of further information.

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II.—DATA from which the SUMMARY on page 133 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head ⚓	62	41	54·1	44·6	49·0	+ 0·5	49	0	5	0·26	−0·20	*	*	*	*
	Stornoway	68	44	60·1	47·6	53·4	+ 2·7	80	0	1	0·08	−0·57	33·0	− 8·8	27	− 7
	Wick	77	46	62·1	48·6	54·9	+ 4·0	90	0	1	0·05	−0·35	*	*	*	*
	Lairg ⚓	75	43	64·0	47·6	55·2	+ 3·4	92	0	1	0·27	−0·27	*	*	*	*
	Glencarron ⚓	76	41	63·9	48·1	55·5	+ 4·4	95	0	1	0·34	−0·35	*	*	*	*
	Fort Augustus ⚓	79	44	67·2	48·4	57·2	+ 4·4	106	0	2	0·05	−0·43	39·5	?	33	?
	Fort William ⚓	75	43	64·6	49·6	56·6	+ 3·1	102	0	2	0·55	−0·36	39·1	?	32	?
1. SCOTLAND, E.	Nairn	78	44	66·6	47·2	56·6	+ 3·1	102	0	2	0·08	−0·32	*	*	*	*
	Aberdeen	72	46	61·4	48·7	54·6	+ 2·1	88	0	2	0·02	−0·38	52·2	+ 5·8	43	+ 5
	Braemar ⚓	77	39	65·3	44·7	54·3	+ 3·8	86	0	2	0·05	−0·48	48·8†	?†	40†	?†
	Ochtertyre ⚓	82	36	67·6	46·6	56·4	+ 3·0	101	0	3	0.82	+0·23	*	*	*	*
	Leith	83	43	65·6	49·6	57·0	+ 2·7	105	0	3	0·53	+0·17	*	*	*	*
	Marchmont ⚓	79	42	64·6	48·7	56·1	+ 3·6	99	0	3	0·71	+0·16	58·3	?	49	?
2. ENGLAND, N.E.	Alnwick Castle	71	41	62·1	48·6	54·9	+ 2·6	90	0	3	0·79	+0·40	*	*	*	*
	Durham	81	43	68.3	47·5	57·2	+ 3·4	106	0	4	0·76	+0·33	53·6	+14·4	45	+12
	Shields	74	46	63·1	50·7	56·5	+ 3·4	102	0	3	1·00	+0·62	*	*	*	*
	Scarborough ⚓	78	45	64·5	49·6	56·5	+ 2·6	102	0	3	0·89	+0·43	*	*	*	*
	York	79	48	67·9	51·1	58·9	+ 3·8	118	0	3	0·71	+0·21	59·9	+19·8	51	+16
	Spurn Head	65	47	58·6	50·1	54·1	− 0·3	85	0	2	0·05	−0·32	*	*	*	*
3. ENGLAND, E.	Hillington ⚓	79	44	71·8	48·4	59·3	+ 3·9	121	0	2	0·10	−0·38	63·5	+17·2	55	+15
	Yarmouth	66	46	60·4	49·9	54·8	+ 0·1	90	0	2	0·53	+0·13	*	*	*	*
	Geldeston	79	45	67·2	47·0	56·4	+ 1·2	101	0	2	0·16	−0·22	69·1	+18·0	61	+17
	Cambridge	85	45	74·6	48·9	60·9	+ 4·4	132	0	3	0·36	−0·15	69·2	+23·4	61	+21
	Rothamsted	76	44	70·6	49·2	59·2	+ 4·0	120	0	2	0·20	−0·28	71·6	?	63	?
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	82	43	69·7	47·1	57·6	+ 2·0	109	0	3	0·59	+0·08	*	*	*	*
	Loughborough	83	43	73·6	48·3	60·1	+ 3·3	127	0	2	0·18	−0·32	*	*	*	*
	Stamford (Ketton Hall)	82	41	74·0	46·9	59·5	+ 2·9	123	0	3	0·92	+0·48	*	*	*	*
	Cheadle ⚓	77	47	68·7	49·6	58·5	+ 5·3	116	0	3	0·31	−0·34	*	*	*	*
	Churchstoke ⚓	79	43	71·8	49·4	59·6	+ 5·9	123	0	2	0·15	−0·33	66·7	+24·5	57	+20
	Hereford ⚓	82	49	74·0	51·1	61·8	+ 5·5	139	0	2	0·15	−0·35	*	*	*	*
	Cirencester	78	43	71·3	47·7	58·7	+ 4·1	117	0	1	0·02	−0·53	72·2	+27·2	63	+24
	Oxford	80	46	72·7	50·6	60·9	+ 4·8	132	0	2	0·22	−0·29	83·2	+38·5	73	+34
5. ENGLAND, S.	London	83	48	72·6	51·6	61·4	+ 3·9	136	0	1	0·07	−0·42	71·2†	+28·9†	62†	+24†
	North Foreland	69	47	62·7	50·4	56·1	+ 1·5	99	0	2	0·19	?	*	*	*	*
	Strathfield Turgiss ⚓	80	40	72·2	46·7	58·6	+ 2·3	116	0	3	0·08	−0·34	*	*	*	*
	Dungeness	69	47	63·9	50·3	56·6	+ 0·2	102	0	1	0·04	−0·34	*	*	*	*
	Hastings (St. Leonards)	73	48	65·8	50·5	57·7	+ 1·0	110	0	1	0·25	−0·15	76·0	+22·8	67	+20
	Southampton	80	46	72·8	51·8	61·6	+ 4·2	137	0	1	0·16	−0·31	82·9	+34·2	73	+30
	Hurst Castle	70	50	66·4	53·0	59·2	+ 2·7	120	0	1	0·01	−0·40	*	*	*	*
	Stowell ⚓	79	46	70·0	49·8	59·1	+ 3·2	120	0	1	0·11	?	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	74	45	66·7	51·5	58·6	+ 5·0	116	0	1	0·64	−0·43	*	*	*	*
	Glasgow	77	43	65·7	49·6	57·1	+ 3·4	106	0	3	1·26	+0·68	32·4	− 4·6	27	− 4
	Ardrossan	71	41	62·4	51·6	56·6	+ 2·4	102	0	2	0·20	−0·38	*	*	*	*
	Glenlee ⚓	79	40	66·3	46·9	55·9	+ 2·7	97	0	2	0·92	+0·22	*	*	*	*
	Douglas (Isle of Man)	71	45	65·8	49·7	57·2	+ 3·6	106	0	2	0·23	−0·27	57·7	+ 6·5	49	+ 6
7. ENGLAND, N.W.	Newton Reigny	78	45	67·1	48·4	57·1	+ 4·6	106	0	2	0·91	+0·42	69·0	+22.7	61	+19
	Stonyhurst	77	43	66·8	48·6	57·1	+ 2·5	106	0	3	0·83	+0·13	62·7	+18·4	54	+16
	Blackpool ⚓	75	44	66·2	51·0	58·1	+ 3·2	113	0	2	0·23	−0·27	63·6	+18·4	54	+16
	Manchester	80	45	69·0	49·7	58·7	+ 4·0	117	0	3	0·34	−0·32	*	*	*	*
	Liverpool Obsy. (Bidston)	79	? 49	69·3	53·1	60·6	+ 4·7	130	0	2	0·28	−0·02	*	*	*	*
	Llandudno ⚓												72·7	+29·9	63	+26
	Holyhead	71	50	67·1	53·1	59·6	+ 4·6	123	0	1	0·02	−0·42	*	*	*	*
8. ENGLAND, S.W.	Llandovery	84	44	75·4	49·4	61·5	+ 5·8	137	0	2	0·10	−0·57	*	*	*	*
	Pembroke	77	51	65·4	53·3	58·9	+ 4·4	118	0	1	0·01	−0·44	75·6	+21·5	66	+19
	Arlington (N. Devon)	76	46	68·9	49·7	58·6	+ 4·5	116	0	1	0·03	−0·71	*	*	*	*
	Cullompton ⚓	79	43	71·0	48·9	59·2	+ 3·8	120	0	1	0·02	−0·50	64·2	+18·0	57	+16
	Falmouth	67	51	63·1	52·4	57·4	+ 1·7	108	0	0	—	−0·59	71·2	+19·0	64	+17
	Plymouth	72	52	65·8	53·8	59·4	+ 1·6	122	0	0	—	−0·44	65·1	+17·3	58	+16
	Prawle Point	67	49	62·1	52·3	56·9	+ 2·3	104	0	1	0·02	−0·33	*	*	*	*
9. IRELAND, N.	Malin Head	68	45	62·4	51·6	56·6	+ 2·1	102	0	3	1·52	?	*	*	*	*
	Londonderry		46		51·2					2	1·25	+0·68	*	*	*	*
	Mullaghmore	76	50	65·1	54·4	59·4	+ 4·5	122	0	3	1·14	+0·51	*	*	*	*
	Belmullet	75	51	65·0	54·9	59·6	+ 5·1	123	0	2	0·04	?	*	*	*	*
	Markree Castle	76	46	67·6	48·8	57·6	+ 4·3	109	0	2	1·85	+1·25	47·1	+ 8·3	41	+ 8
	Brookeborough	79	46	70·0	49·8	59·2	+ 5·5	120	0	1	0·69	+0·04	*	*	*	*
	Armagh	77	44	68·5	48·8	58·0	+ 3.7	112	0	2	1·19	+0·71	44·8	+ 3·7	38	+ 3
	Donaghadee	71	45	63·9	52·4	57·8	+ 3·9	111	0	3	1·00	+0·52	*	*	*	*
	Edgeworthstown	65	47	58·0	48·3	52·8	− 1·5	76	0	3	0·90	+0·20	*	*	*	*
10. IRELAND, S.	Dublin	75	51	69·4	53·5	60·9	+ 5·1	132	0	1	0·09	−0·33	61·6	+16·3	53	+13
	Parsonstown	77	46	71·1	50·4	60·0	+ 5·3	126	0	2	0·16	−0·28	55·6	+14·1	48	+12
	Kilkenny	73	48	69·4	50·4	59·2	+ 3·9	120	0	2	0·06	−0·45	*	*	*	*
	Waterford	72	48	68·8	51·0	59·3	+ 3·4	121	0	1	0·03	−0·53	*	*	*	*
	Roche's Point	67	50	65·1	52·1	58·2	+ 2·0	113	0	1	0·01	−0·70	*	*	*	*
	Valencia	76	48	67·1	53·9	59·5	+ 4·1	123	0	2	0·09	−0·63	56·5	+ 9·3	50	+ 9
	Killarney	73	52	67·7	53·2	60·0	+ 5·4	126	0	1	0·21	?	*	*	*	*
	Foynes	75	47	69·2	52·4	60·2	+ 5·5	127	0	1	0·03	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	64	53	61·0	54·1	57·3	+ 1·6	107	0	0	—	−0·39	*	*	*	*
	Jersey	72	46	65·9	51·1	58·0	+ 1·1	112	0	1	0·05	−0·40	77·3	+21·5	70	+20

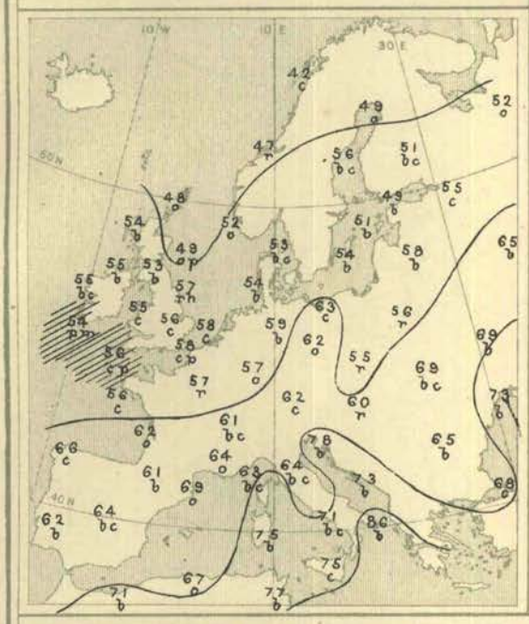
Stations marked ⚓ are in connection with the Royal Meteorological Society, and those marked $ with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory and the Meteorological Office, Victoria Street. For additional Reports of Sunshine see last page.

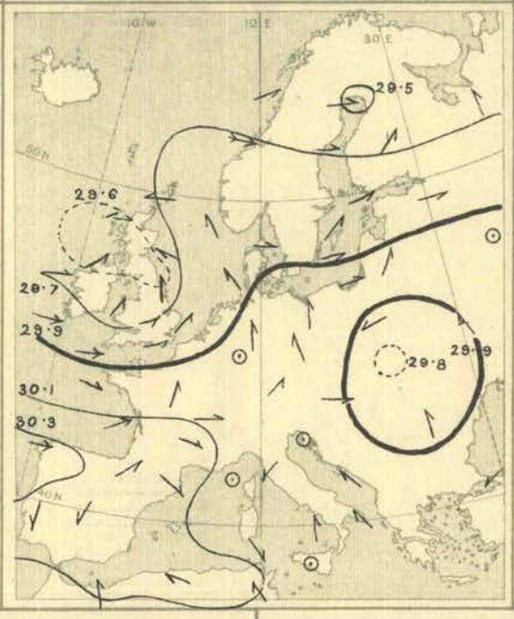
III.—SUMMARY OF WEATHER OVER EUROPE.

Sunday, 5th June.

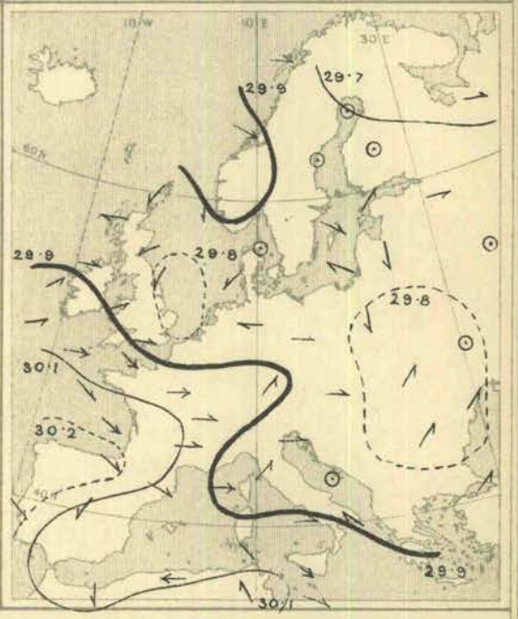
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over Russia, Hungary, south-eastern Europe, the Mediterranean, and Spain; cloudy and unsettled over northern and north-western Europe, the British Islands and their neighbourhood, with rain in several places. Rain later over Germany, France, and in many parts of the United Kingdom and northern Europe. Rainfall exceeding 2 inches at Trieste and Archangel. Thunder and hail in north-east and east of England, and thunderstorms generally prevailed over Austria, Hungary, and Poland.

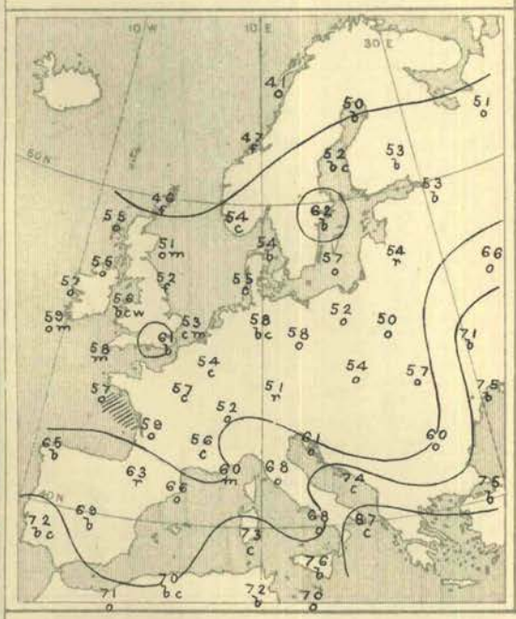
Temperature in morning exceeding 70° over southern Russia and on many of the Mediterranean coasts, and exceeding 60° over southern, south-eastern, and eastern Europe generally; lower elsewhere. Below 60° over the United Kingdom, North Sea, and the Baltic, and as low as 42° at Bodö, 45° at Uleaborg, 47° at Christiansund, 48° at Sumburgh Head, 49° at Aberdeen. Rising later to 80° and more over Italy, Spain, and Algerian coasts, and to 100° and more over central Algeria.

Wind fresh to strong from West and South-West in the south of our Islands, the Channel, and the north of France, light Southerly over the Netherlands and Denmark, light South-Easterly to Easterly in Scotland, light Westerly over the Baltic and northern half of Scandinavia, very variable over southern and south-eastern Europe. Wind veering North-West over England later, and Easterly airs becoming still more general in Scotland.

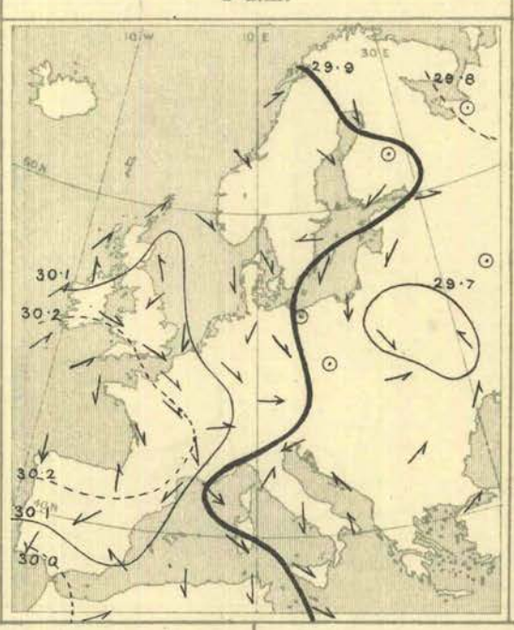
Barometer highest, 30·3 ins. and more to 30·2 ins. over the Iberian Peninsula, exceeding 30·0 ins. over all the southern half of France, Switzerland, and south Germany, exceeding 29·8 ins. over the Baltic and eastern shores of the North Sea. Lowest, 29·5 ins. and less in a depression over Lapland, and in another over Galicia, 29·6 ins. and less in a third (complex) system over the northern half of our Islands. Latter disturbance moving south-eastwards later, and undergoing great modification. Barometer rising decidedly over the United Kingdom.

Monday, 6th June.

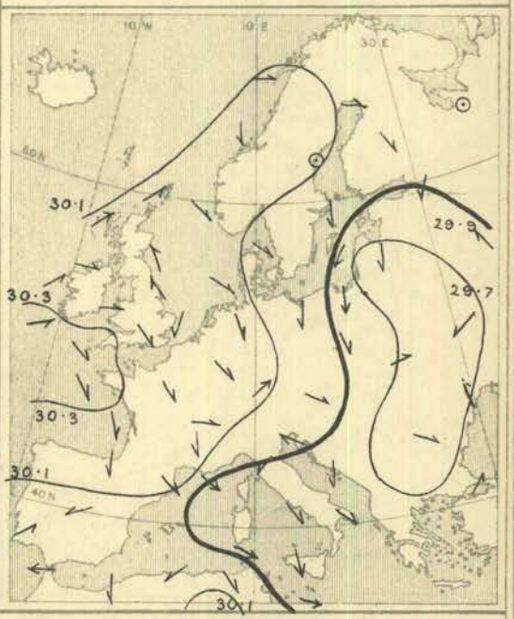
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over Algeria, Spain, some parts of France, and many parts of England, also over Finland and Sweden, cloudy and unsettled elsewhere; very foggy on our north and north-east coasts and at Christiansund. Rain later at some German, Austrian, and Russian stations, and in the north-west of Norway, as well as (in small quantity) in the northern parts of Ireland and Norway; fog or haze in many places.

Temperature in morning 87° at Brindisi, exceeding 70° over south-eastern Europe, on the eastern and southern shores of the Mediterranean, at San Fernando and Lisbon, exceeding 60° over southern Europe generally and central Russia, as well as the south-eastern half of England, lower elsewhere. Lowest, 41° at Bodö, 46° at Sumburgh Head, 47° at Christiansund, and 49° at Uleaborg. Rising during day to 70° and more over the midland and south-eastern counties of England and many parts of France, and touching 93° at Lisbon, and 100° over central Algeria; not touching 60° on our north-east coast.

Wind light and very variable. A large cyclonic circulation prevailing over Russia, the Baltic, and central Europe; light Northerly and North-Westerly airs over England and France, but Southerly in Ireland and Scotland, moderate Northerly breezes over Spain, a North-Westerly gale at Toulon, and strong Westerly wind at Sanguinaire and Cagliari. Little change later except over the Mediterranean, where the gales died down.

Barometer highest, 30·2 ins. and more to 30·1 ins. in a large anticyclone of irregular outline, spreading in from the Atlantic and the Bay of Biscay over France and the British Islands, exceeding 30·0 ins. in a "ridge" stretching thence over Norway. Lowest, 29·7 ins. and less in a large shallow depression over Poland and eastern Prussia, and below 29·8 ins. both over north-eastern Russia and south-eastern Europe. A local secondary "V" over northern Italy, the south of Genoa, and neighbouring regions. Barometer rising slowly over north-western and northern Europe all day, falling over the Balkan Peninsula.

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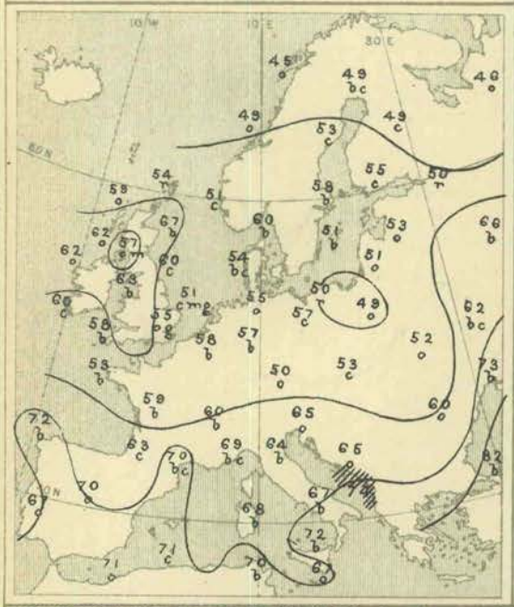
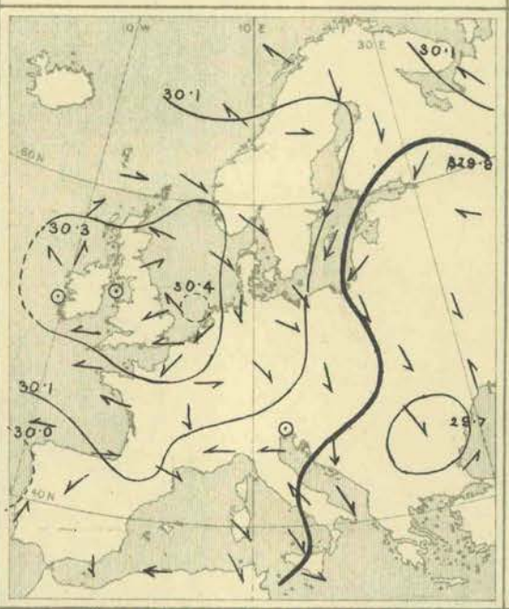
III.—SUMMARY OF WEATHER OVER EUROPE.

Tuesday, 7th June.

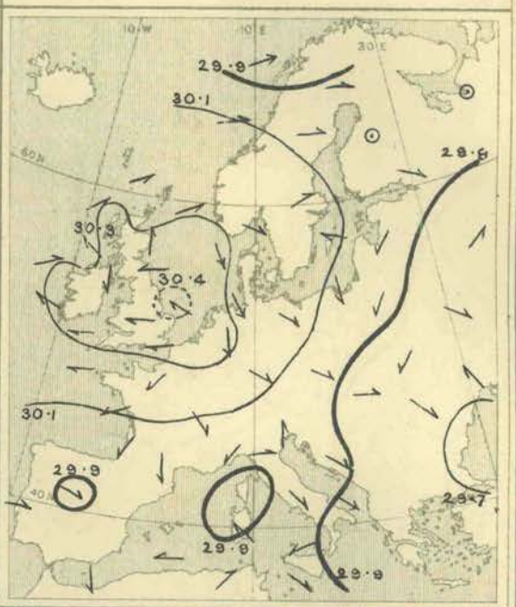
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over the British Islands and western Europe generally, as well as over the Mediterranean, Russia, the Baltic, and south of Scandinavia; cloudy in some localities, clear and bright in others: dull and unsettled over Germany and Austria, rainy at Neu Fahrwasser and also at Sumburgh Head. Rain falling in the Shetlands, Norway, south Germany, and Austria later, and a little at Nice; weather fine and dry elsewhere.

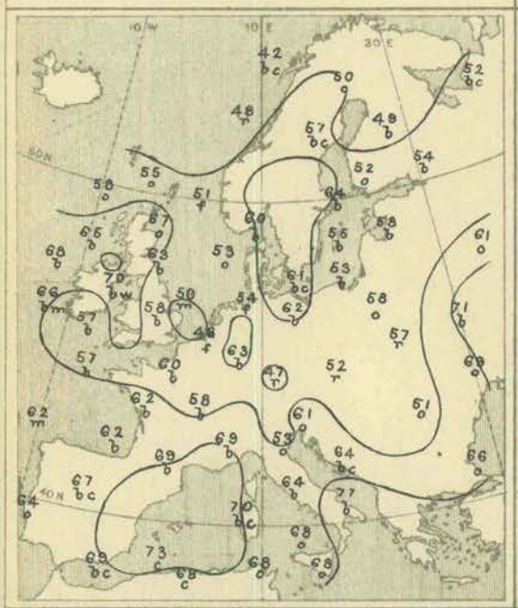
Temperature fallen somewhat in most places. Morning readings exceeding 80° at Constantinople, and 70° at several Mediterranean stations, exceeding 60° over southern Europe, the northern half of the British Islands and central Russia, but below that value over the south-east of England and central Europe. Lowest, 45° at Bodö, 46° at Archangel, 49° at Haparanda, Kuopio, Christiansund, Warsaw, and Breslau. Rising later to between 75° and 80° in Ireland and Scotland, and to 80° and more in some parts of France, and to 90° and more over Algeria, but less high in the south-west and south-east of England.

Wind (1) Northerly over the whole of northern Russia and the Baltic (strong in many places), North-Westerly over north Germany (light inland), Southerly to South-Easterly airs over central Russia; (2) very light and variable over the British Islands, but Easterly over the Channel, France, and the Bay of Biscay, and Mediterranean, South-Westerly to Westerly in Scotland. Backing Southwards in Scotland later, and to West over Lapland; inclined to freshen slightly from the East over the south of England.

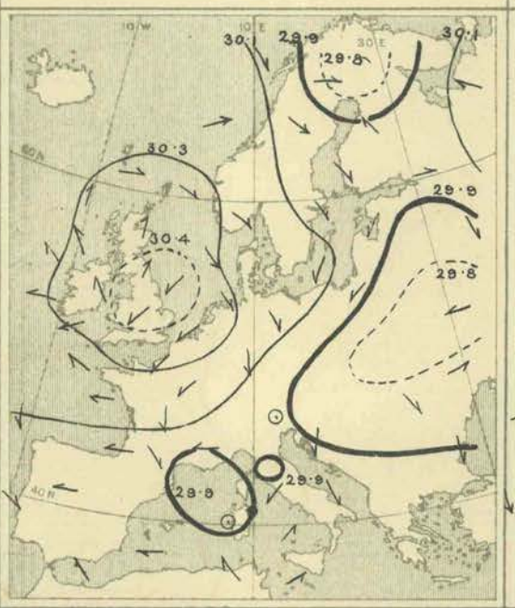
Barometer highest, 30·4 ins. and more to 30·2 ins. in an anticyclone covering the British Islands, North Sea, the Netherlands, and northern half of France, and exceeding 30·1 ins. over the north of Russia. Lowest, 29·6 ins. and less over south-eastern Europe, below 29·8 ins. in Poland and northern Russia, and rather below 30·0 ins. off the coast of Portugal. Shallow depression advancing over the Peninsula later.

Wednesday, 8th June.

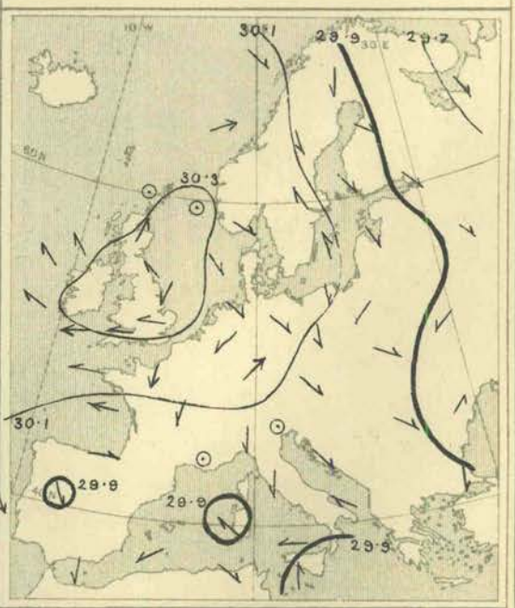
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the British Isles, western and north-western Europe generally, also over over Finland and the greater part of Russia; dull and unsettled over central and south-eastern Europe, very rainy over Austria-Hungary. Remaining very fine over western and north-western Europe later, but considerable rain falling at Christiansund, very large quantities over Austria-Hungary, and some at Munich.

Temperature in morning, highest, 70° to 77° at many of the Mediterranean stations and in the south of Russia, exceeding 60° over southern Europe generally, many parts of the British Islands (70° at Holyhead) and eastern Germany, lower elsewhere. Lowest, 42° at Haparanda, 48° at Uleaborg and Christiansund; not much above 50° over Austria, and as low as 47° at Munich. Rising later to between 75° and 78° over Scotland, Ireland and Italy, to rather above 70° in the south-east of England, to 80° or more in many parts of France, and to 100° and more in some parts of Algeria.

Wind light and anticyclonic over the British Isles and north-western Europe (Easterly and North-Easterly over the Channel and Bay of Biscay, South-Easterly in Ireland, Westerly in Norway, and North-Westerly on the eastern shores of the North Sea), North-Westerly over the Baltic and north of Sweden, Northerly over Poland, eastern Prussia, and Austria, South-Easterly over southern Russia, very variable over the Mediterranean. North-Easterly wind becoming strong in France later, and Easterly breeze freshening at our southern stations.

Barometer highest, 30·4 and more to 30·2 ins. in an anticyclone covering the British Isles, the Channel, the North Sea, and neighbouring parts of the Continent. Lowest, 29·8 ins. and less in a depression over the east of Lapland, in another over the southern half of Russia, and in a third (small one) over central Italy; below 29·9 ins. over the central and eastern parts of Spain. Falling slowly over the British Isles and western Europe later.

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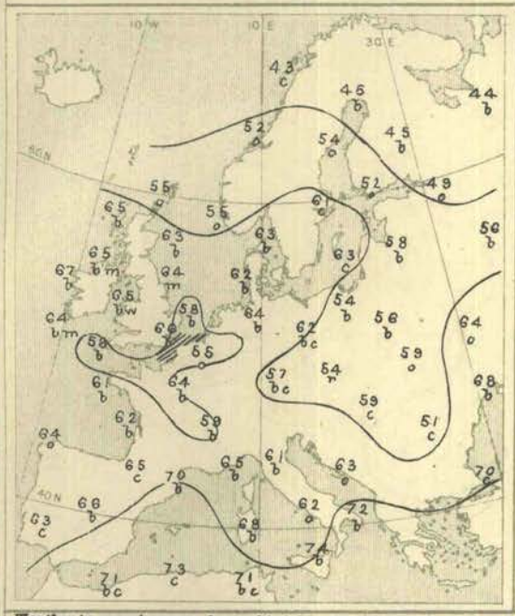
III.—SUMMARY OF WEATHER OVER EUROPE.

Thursday, 9th June.

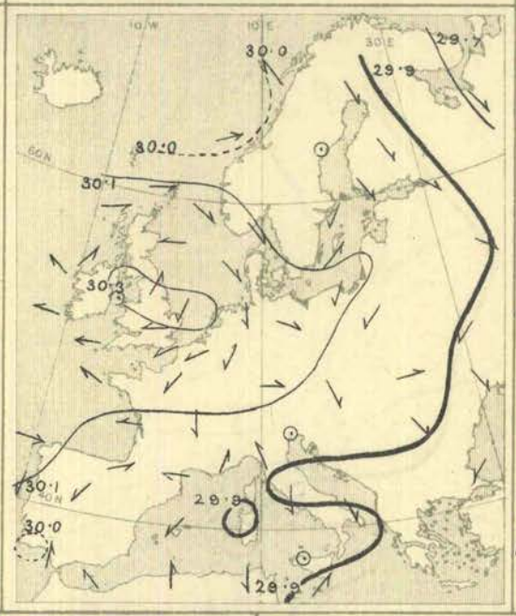
Temperature and Weather.

8 a.m.

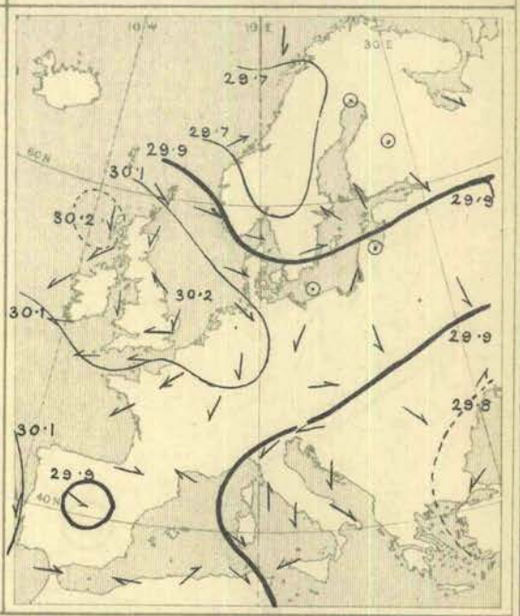


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning very fine and bright over the British Isles and western Europe generally, as well as over north Germany and the northern parts of Russia; cloudy more or less elsewhere, unsettled in Austria, with rain at Vienna. Considerable rain in some parts of Scandinavia later, as well as in Hungary, but weather continuing fine and bright in the British Isles, France, and Germany.

Temperature rising again over western and central Europe, falling over Russia and at several Mediterranean stations. Morning readings exceeding 70° in last-mentioned regions, and exceeding 60° in almost all parts of western Europe, including the British Isles (68° at Leith, 67° at Belmullet). Lower elsewhere, and lowest of all, 43° at Bodö, 44° at Archangel, 45° at Haparanda and Kuopio. Rising later to between 75° and 78° in many parts of Scotland, Ireland, and England, and to 83° at Leith and Loughborough; exceeding 80° at Berlin, in some parts of Italy and in several part of France, and touching 95° at Rochefort, as well as over central Algeria.

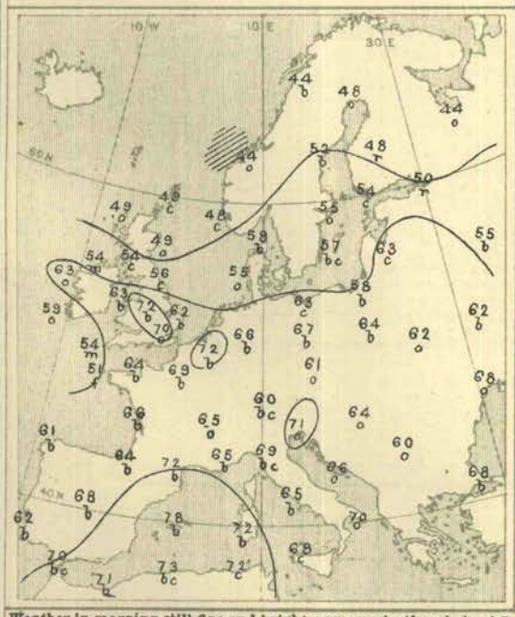
Wind still light and anticyclonic. Mainly Westerly to North-Westerly over the northern countries (but South-Easterly at Bodö), North-Easterly over central and southern Europe, Easterly over the Bay of Biscay, north of France, and southern parts of Ireland and England. Southerly over the Irish Sea. Local variations over some parts of the Mediterranean and the West of Lapland. Cyclonic circulation being developed over Scandinavia later, and northerly breeze over central Europe dying down.

Barometer highest, 30·3 ins. and more to 30·1 ins. in a large anticyclone of irregular outline covering the British Islands, North Sea, and neighbouring countries. Lowest, 29·8 ins. and less over the north-east of Russia, 29·9 ins. and less over south-eastern Europe, and in a shallow local depression over Sardinia; 30·0 ins. and less off the nort-west of Norway. Falling over the British Isles and France all day; shallow depressions appearing over last-named country and a larger system of irregular form over Scandinavia; anticyclone over the British Isles showed signs of breaking up.

Friday, 10th June.

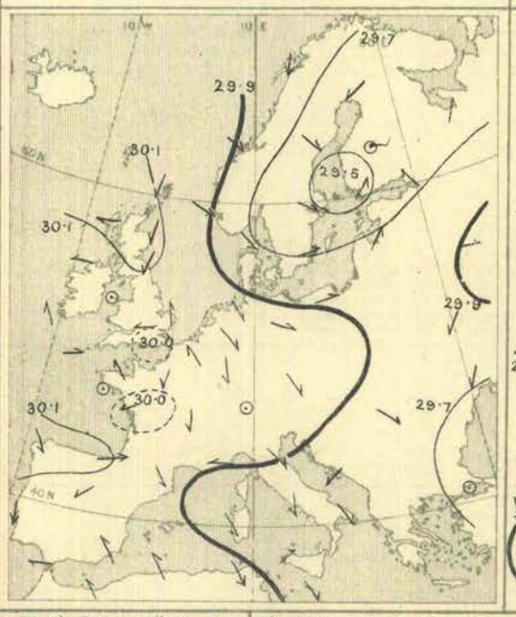
Temperature and Weather.

8 a.m.

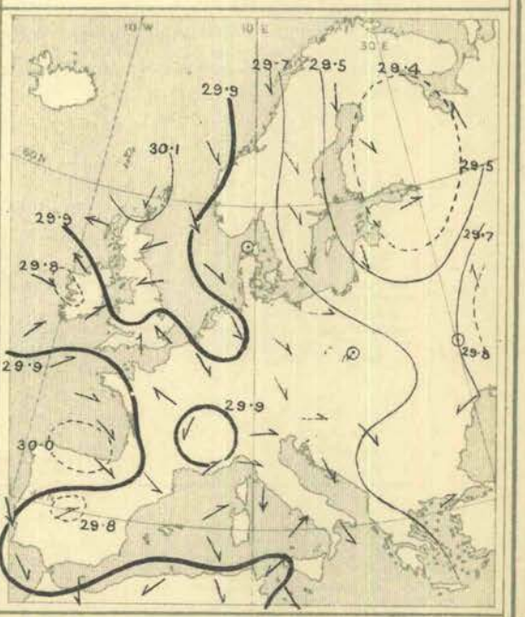


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning still fine and bright over nearly the whole of Scandinavia, Germany, England, France, Spain, and the Mediterranean, as well as over central Russia: dull and rainy over the Baltic Provinces, and becoming unsettled over Ireland and Scotland. Much rain in north of Ireland later, and considerable quantities in north-east and east of England, smaller quantities in Sweden; thunderstorms in places. Heavy rains over the central and southern parts of Russia. Sky continuing clear and bright over France and Germany.

Temperature risen again over central Europe and many parts of England—fallen rapidly in Scotland and extreme north of Ireland, considerably in Norway. Exceeding 70° at most of the Mediterranean stations, ranging between 68° and 72° over many inland and eastern parts of England, exceeding 60° over Ireland, England and central Europe generally. Below 50° over Scotland and most of northern Europe, and as low as 44° in the north-west of Norway and at Archangel. Rising later to above 80° over Germany, to between 80° and 85° over the inland parts of England and to still higher values in many parts of France (88° in Paris). Not so warm in Italy, but touching 90° in some parts of Algeria.

Wind (1) moderate, North-Easterly at northern extremity of Gulf of Bothnia; moderate to strong from North and North-West over Scandinavia and the Sound, moderate to light from same quarter over the North Sea, South-Westerly over the Baltic and Baltic Provinces, South-Easterly to Southerly over the Gulf of Finland; (2) moderate North-Westerly and Northerly over the eastern half of the Mediterranean; (3) very variable elsewhere. Local cyclonic systems over Ireland and the west of France during day.

Barometer highest, (1) 30·1 ins. and more over Scotland and also over the north of Spain; (2) 30·0 ins. and more over central Russia. Lowest, (1) 29·5 ins. and less in a depression over Finland and the Gulf of Bothnia; 29·7 ins. and less in another over the Black Sea; 29·9 ins. and less over the Mediterranean; and below 30·0 ins. in the west of France and the western half of our Islands. Falling over the United Kingdom later, and additional shallow depressions forming over our Islands. Depression in far north moving eastwards; anticyclone over Russia giving way.

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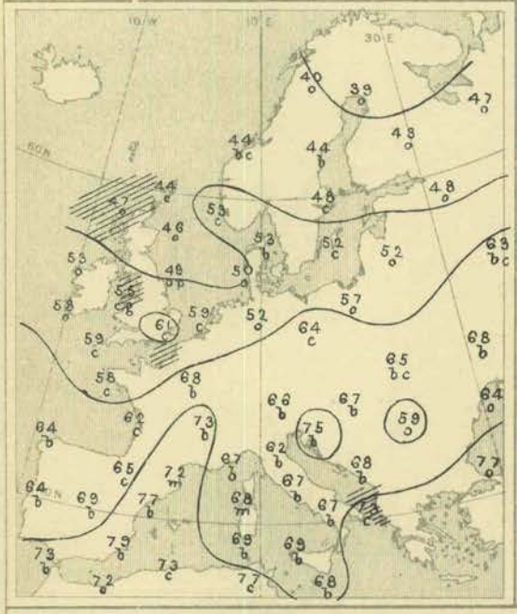
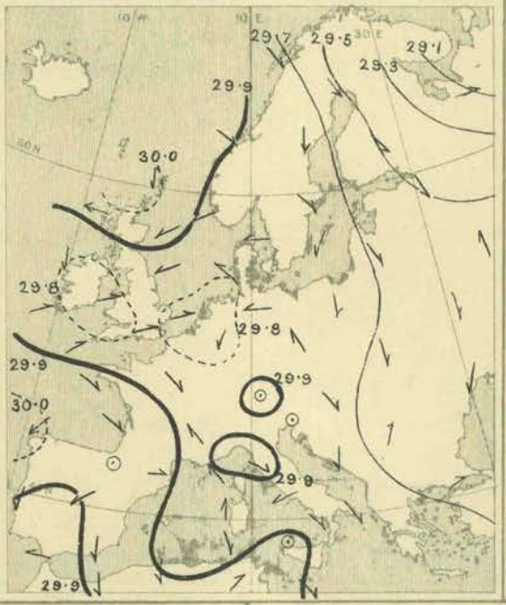
III.—SUMMARY OF WEATHER OVER EUROPE.

Saturday, 11th June.

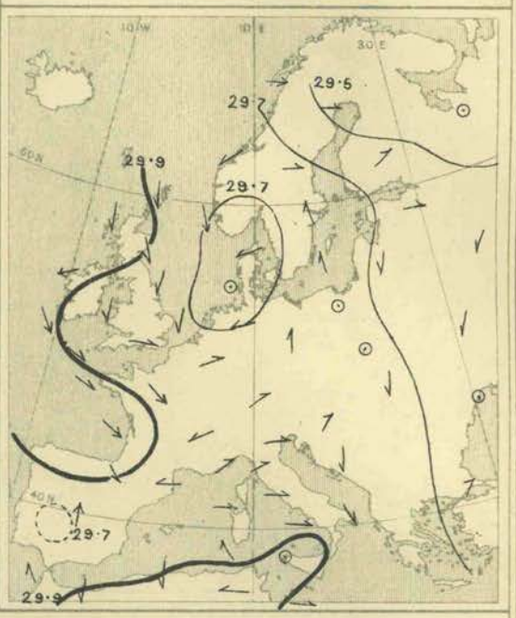
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over south-western, southern, and central Europe, as well as as over Scandinavia, dull over Finland and northern Russia, and very unsettled over the greater part of the United Kingdom. Rain in most parts of our Islands later, in some parts of Scandinavia, and in Germany, but weather remaining dry over France, although thunder and lightning occurred at night.

Temperature falling decidedly over north-western Europe, rising at many central and south-eastern stations. Exceeding 70° at Constantinople, at most of the Mediterranean stations, and in the south of France, and exceeding 60° over all but the most northern countries. Lowest, 39° to 40° over Lapland, and below 30° over Finland, the northern half of Scandinavia, all of Scotland, and the north of Ireland. Not reaching 70° in any part of our Islands during day, but exceeding that value over eastern Germany, exceeding 80° in many parts of France and Italy (90° at Lyons), and exceeding 90° in some parts of Algeria.

Wind moderate North-Westerly to Northerly over northern, and mainly Northerly, light, over central Europe, Easterly, fresh, over Scotland and Ireland, Westerly at our southern stations and in the Channel, very variable elsewhere, and of little strength. Northerly and North-Easterly breezes spreading over our Islands from the northward later, and a Southerly breeze over Spain.

Barometer highest, (1) 30·0 ins. to 29·9 ins. over the Bay of Biscay and the neighbouring parts of of Spain and France; (2) 29·9 ins. and more to 29·8 ins. over Scotland and the west of Norway. Lowest, 29·2 ins. and less to 29·4 ins. over the north of Russia, 29·6 ins. and less over the Black Sea, and below 29·8 ins. in shallow irregular depressions over the British Islands and North Sea. Latter systems moving eastwards later, but others forming over Spain. Barometer rising decidedly in Ireland.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During the greater part of this week anticyclonic conditions prevailed over the British Islands and western Europe, in which regions the barometer rose to between 30·3 ins. and 30·4 ins. on the 8th. The winds were consequently light to moderate in force, and variable in direction, but mainly North-Easterly to Easterly over France and the southern parts of our Islands. The weather was dry and bright; temperature rose steadily, and on Friday maxima exceeding 80° were recorded in many parts of the British Islands and France. A complex distribution of pressure was then developed, and, with a rapid fall of temperature, thundery, showery weather set in over the western and northern parts of the Kingdom, while heavy clouds prevailed in the south and east.

Over the more eastern and southern parts of Europe the weather of the week has been showery, thundery, and unsettled, with rather low pressures and a predominance of Northerly winds.

BRIGHT SUNSHINE Values for the Week in addition to those found on page 134.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	43·6	?	36	?	EASTBOURNE	71·2	?	63	?
OSWALDKIRK (Yorkshire)	54·2	?	46	?	TENBY	70.3*	?	62*	?
WORKSOP	65·3	+27·5	56	+24	NEWQUAY	68·0	?	61	?
THURCASTON (Leicestershire)	75·4	+36·3	65	+32	TORQUAY	69.8*	?	62*	?
MARGATE	50·4	?	45	?	ARLEY COTTAGE (County Cavan)	48·2	?	41	?
WESTBOURNE (Sussex)	80·8*	?	71*	?	GUERNSEY	65·4*	?	59*	?
BRIGHTON	79·2	?	70	?					

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.
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VOL. IX. No. 24.] *Third Series.* WEEK ENDING SATURDAY, 18TH JUNE, 1892. [*Price* 6*d.* [*Annual subscription post paid*, £1 10*s.* 0*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years' observations (1871–90). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the ten years 1881-90. RAINFALL.—*The Mean amounts* are those for the corresponding periods in the twenty-five years 1866–90, but the *Mean numbers of Rainy Days* are those for the ten years 1881-90, only. BRIGHT SUNSHINE.—*The Mean values* employed are those for the corresponding periods in the ten years 1881-90.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 140.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1892. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	59	32	52·3	38·7	45·6	7 below.	35	−27	6	+ 5	524	+21	754	+212
	1. SCOTLAND, EAST	67	35	55·6	40·7	47·6	6 below.	45	−37	4	+ 4	655	−32	813	+241
	2. ENGLAND, N.E.	62	37	54·7	42·7	48·3	7 below.	44	−42	0	0	742	+15	684	+186
	3. ENGLAND, EAST	62	32	57·0	41·1	48·5	8 below.	49	−50	3	+ 3	851	− 3	771	+210
	4. MIDLAND COUNTIES	65	30	58·5	40·0	48·6	8 below.	55	−44	6	+ 6	930	+51	802	+250
	5. ENGLAND, SOUTH	66	33	59·8	43·9	51·3	7 below.	65	−41	0	0	938	−14	554	+138
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	62	34	57·1	41·6	48·8	6 below.	49	−36	1	+ 1	714	+ 3	610	+193
	7. ENGLAND, N.W.	61	33	56·3	43·3	49·3	7 below.	51	−40	0	0	766	+11	579	+165
	8. ENGLAND, S.W.	64	31	59·1	43·8	50·9	6 below.	62	−36	0	0	923	+19	433	+117
	9. IRELAND, NORTH	61	34	55·8	44·6	49·8	5 below.	55	−32	0	0	799*	−12	484	+122
	10. IRELAND, SOUTH	68	34	59·2	43·9	51·0	6 below.	63	−33	0	0	969	+ 5	410	+132
	— CHANNEL ISLANDS	62	47	59·0	50·2	54·3	3 below.	86	−16	0	0	1032	+13	164	+ 42

Rainfall.

	DISTRICTS. (See p. 140.)	For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1892. Number of Rainy Days.	Difference from Mean.	Total Fall.	Difference from Mean.
			10ths of In.	10ths of In.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	7	0 (average)	115	+ 4	19·0	− 1·6
	1. SCOTLAND, EAST	6	6	1 more.	89	+ 1	10·7	− 2·1
	2. ENGLAND, N.E.	5	5	0 (average)	90	+ 7	9·6	− 0·7
	3. ENGLAND, EAST	4	2	3 less.	83	+ 2	7·8	− 2·4
	4. MIDLAND COUNTIES	3	1	4 less.	75	− 4	8·1	− 3·6
	5. ENGLAND, SOUTH	3	2	3 less.	63	−15	6·2	− 5·3
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	3	3	5 less.	88	− 6	16·3	− 4·8
	7. ENGLAND, N.W.	4	3	2 less.	87	+ 1	12·6	− 0·7
	8. ENGLAND S.W.	2	1	5 less.	78	−11	10·3	− 6·3
	9. IRELAND, NORTH	4	2	4 less.	93	− 7	14·3	− 0·5
	10. IRELAND, SOUTH	2	1	5 less.	83	−11	13·9	− 3·1
	— CHANNEL ISLANDS	1	1	4 less.	82	−14	11·2	− 2·3

Bright Sunshine.

	DISTRICTS. (See p. 140.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1892. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	32	− 4	26	− 2	621	+ 33	30	+ 1
	1. SCOTLAND, EAST	38	0	31	− 1	725	+ 66	35	+ 3
	2. ENGLAND, N.E.	36	− 2	31	− 1	711	+121	34	+ 6
	3. ENGLAND, EAST	32	−16	29	−13	782	+ 70	38	+ 3
	4. MIDLAND COUNTIES	39	− 3	34	− 1	767	+141	37	+ 7
	5. ENGLAND, SOUTH	40	− 6	35	− 6	850	+180	41	+ 8
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	62	+18	52	+15	739	+ 95	36	+ 5
	7. ENGLAND, N.W.	54	+10	46	+ 9	771	+133	37	+ 6
	8. ENGLAND S.W.	53	+ 3	47	+ 3	891	+143	43	+ 7
	9. IRELAND, NORTH	57	+18	48	+15	688	+ 62	33	+ 3
	10. IRELAND, SOUTH	47	+ 4	40	+ 3	769	+ 55	37	+ 2
	— CHANNEL ISLANDS	69	+10	62	+ 9	978	+112	47	+ 5

Bright Sunshine.—For several of the stations there are no "mean" values available, and the "difference from the mean" in some of the districts is consequently that of only a few of the stations.

General Remarks.

Weather during this period was cold and somewhat unseasonable. At first it was fair in nearly all parts of the Kingdom, but subsequently became very changeable, with frequent sharp showers over the north-east of Great Britain, and slight showers elsewhere. On the 17th and 18th, thunderstorms were experienced in many parts of England.

Temperature was below the mean in all districts, the deficit ranging from 3° in the Channel Islands, and 5° in Ireland N., to as much as 7° in Scotland N., and in England N.E., N.W., and S., and to 8° in England E. and the midland counties. The highest of the maxima were recorded on somewhat irregular dates, and ranged from 68° in Ireland S., and 67° in England E., to 61° in England N.W. and Ireland N. The absolute minima were registered either on the 15th or 18th, and were unusually low for the time of the year. In the midland counties (at Stamford) the sheltered thermometer fell to 30°, in England S.W. (at Llandovery) to 31°, to 32° in Scotland N. and England E., and to between 33° and 37° in most other districts. In the Channel Islands, however, the lowest reading was 47°. At Stowell, the thermometer exposed on the grass during the night of the 14th-15th fell to 24°.

Rainfall was slightly more than the mean in Scotland E., and about equal to it in Scotland N. and England N.E.; in all other districts the fall was less than the normal.

Bright Sunshine was less prevalent than during the preceding week in nearly all places. It was less than the mean value in the "wheat producing" districts, but again exceeded it in the "grazing" districts. The percentage of the possible duration ranged from 62 in the Channel Islands, and 52 in Scotland W., to 29 in England E., and to 26 in Scotland N.

Barometer and Wind.—During the whole week barometric pressure was highest in the west, and lowest in the north-east and east. During the latter part of the time shallow depressions moved south-eastwards over our eastern districts and the North Sea. Northerly to North-Westerly winds were consequently very prevalent over the United Kingdom, and were generally moderate or light in force.

* This value has been altered owing to the receipt of further information.

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II.—DATA from which the SUMMARY on page 139 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head ⚓	51	37	49·3	39·0	43·8	− 5·8	25	8	6	0·37	−0·09	*	*	*	*
	Stornoway	55	35	52·0	38·1	44·6	− 7·2	35	11	7	0·36	−0·32	37·9	− 3·8	31	− 2
	Wick	56	37	51·4	40·4	45·5	− 6·5	31	4	5	0·99	+0·58	*	*	*	*
	Lairg 𝔖	55	32	52·0	38·9	45·1	− 7·7	49	9	5	0·51	−0·05	*	*	*	*
	Glencarron 𝔖	53	34	51·8	38·4	44·6	− 7·6	33	10	6	1·27	+0·05	*	*	*	*
	Fort Augustus 𝔖	59	33	54·4	40·5	47·0	− 7·2	41	4	5	0·77	+0·26	25·7	?	21	?
	Fort William 𝔖	57	36	55·1	42·5	48·3	− 6·4	44	0	5	0·27	−0·67	32·7	?	27	?
1. SCOTLAND, E.	Nairn	57	38	53·9	41·1	47·1	− 7·6	39	3	6	0·93	+0·53	*	*	*	*
	Aberdeen	58	38	53·3	41·3	46·9	− 7·0	37	2	6	0·99	+0·59	44·8	− 0·9	36	− 1
	Braemar 𝔖	55	35	51·8	38·9	44·9	− 7·1	33	9	7	0·54	−0·02	30·5 †	?†	25†	?†
	Ochtertyre 𝔖	67	37	61·3	40·1	50·0	− 4·5	64	5	4	0.12	0 50	*	*	*	*
	Leith	67	40	58·9	43·0	50·4	− 5·1	59	0	4	0·82	+0·22	*	*	*	*
	Marchmont 𝔖	61	36	54·1	39·6	46·4	− 7·2	42	7	6	0·62	+0·03	41·0	?	34	?
2. ENGLAND, N.E.	Alnwick Castle	57	41	53·6	43·9	48·4	− 5·2	45	0	5	0·47	+0·04	*	*	*	*
	Durham	62	37	57·0	39·7	47·8	− 7·3	50	6	4	0·31	+0·07	29·2	− 8·6	25	− 7
	Shields	57	40	54·3	42·6	48·0	− 6·7	42	0	6	0·36	−0·04	*	*	*	*
	Scarborough 𝔄	57	42	53·2	42·9	47·6	− 7·9	39	0	6	0·72	+0·26	*	*	*	*
	York	60	37	56·3	41·9	48·6	− 8·0	47	0	4	0·54	+0·02	45·4	+ 6·2	38	+ 5
	Spurn Head	57	43	53·9	45·3	49.3	− 6·4	51	0	4	0·20	−0·16	*	*	*	*
3. ENGLAND, E.	Hillington 𝔄	59	32	57·2	41·4	48·8	− 8·1	50	2	4	0·22	−0·28	31·2	−13·6	27	−12
	Yarmouth	57	40	55·1	43·6	49·0	− 7·3	49	0	6	0 34	−0·10	*	*	*	*
	Geldeston	60	35	57·0	40·4	48·1	− 8·3	49	4	5	0·16	−0·22	30·1	−19·1	26	−17
	Cambridge	62	33	58·1	40·3	48·6	− 9·3	53	5	3	0·11	−0·41	33·8	−15·0	29	−10
	Rothamsted	62	35	57·7	39·8	48·1	− 8·7	52	6	3	0·10	−0·41	35·6	?	34	?
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	60	35	56·7	40·3	48·0	− 9·1	49	5	3	0·12	−0·40	*	*	*	*
	Loughborough	62	33	59·1	40·1	48·9	− 9·5	56	5	4	0·13	−0·39	*	*	*	*
	Stamford (Ketton Hall)	62	30	59·9	38·1	48·2	− 9·9	60	11	4	0·08	−0·36	*	*	*	*
	Cheadle 𝔄	59	35	55·8	39·9	47·3	− 7·4	46	6	3	0·12	−0·55	*	*	*	*
	Churchstoke 𝔄	62	33	57·4	38·6	47·4	− 7·8	52	10	4	0·12	−0 37	45·7	+ 4·4	39	+ 3
	Hereford 𝔄	65	37	66·8	42·0	53·8	− 6·8	62	0	1	0·06	−0·44	*	*	*	*
	Cirencester	62	36	58·9	40·0	48·8	− 7·4	56	6	2	0·02	−0·53	39·3	− 4·4	34	− 4
	Oxford	62	35	59·4	41·0	49·6	− 7·9	57	3	2	0·13	−0·39	38·9	− 4·8	34	− 4
5. ENGLAND, S.	London	63	40	59·1	43·4	50·7	− 8·5	61	0	3	0·34	−0·16	36·1 †	− 4·4†	31†	− 5†
	North Foreland	63	44	57·4	47·1	51·9	− 3·8	69	0	4	0·31	?	*	*	*	*
	Strathfield Turgiss 𝔄	63	33	60·6	39·5	49·3	− 8·6	62	7	4	0·22	−0·25	*	*	*	*
	Dungeness	63	37	59·9	45·4	52·0	− 5·7	70	0	3	0·06	−0·32	*	*	*	*
	Hastings (St. Leonards)	63	40	59·6	44·7	51·6	− 6·3	67	0	2	0·05	−0·34	41·7	− 9·3	37	− 8
	Southampton	66	38	62·9	43·3	52·4	− 6·2	73	0	3	0·10	−0·33	43·8	− 3·9	38	− 4
	Hurst Castle	64	40	61·0	45·4	52·7	− 5·0	75	0	3	0·09	−0·36	*	*	*	*
	Stowell 𝔄	60	36	58·1	42·4	49·7	− 7·7	54	0	2	0·19	?	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	59	36	55·3	40·8	47·6	− 7·0	44	3	5	0·51	−0·62	*	*	*	*
	Glasgow	62	39	58·0	42·4	49·7	− 5·2	54	0	4	0·34	−0·08	53·5	+16·3	44	+13
	Ardrossan	60	41	58·1	44·1	50·6	− 4·3	60	0	2	0·08	−0 50	*	*	*	*
	Glenlee 𝔖	62	34	56·8	38·5	47·0	− 7·3	50	10	2	0·08	−0·67	*	*	*	*
	Douglas (Isle of Man)	60	39	57·3	42·3	49·3	− 5·5	51	0	4	0·05	−0·45	69·6	+18·9	59	+16
7. ENGLAND, N.W.	Newton Reigny	61	33	56·5	39·5	47·4	− 6·9	48	7	4	0·52	+0 02	42·5	− 2.5	36	− 2
	Stonyhurst	59	38	54·9	41·7	47·8	− 8·1	42	1	4	0 69	−0·08	53·8	+10·3	46	+ 9
	Blackpool 𝔄	60	42	56·7	45·9	50·9	− 5·2	62	0	3	0·17	−0·31	52·7	+ 8·7	45	+ 8
	Manchester	61	35	56·4	40·2	47·7	− 8·5	47	5	5	0·29	−0·40	*	*	*	*
	Liverpool Obsy. (Bidston)	58	34	56·3	44·4	49·2	− 7·3	55	0	3	0·10	−0·35	*	*	*	*
	Llandudno 𝔄												67·6	+25·9	58	+22
	Holyhead	60	47	57·1	48·1	52·3	− 3 8	72	0	2	0·12	−0·34	*	*	*	*
8. ENGLAND, S.W.	Llandovery	64	31	61·7	38·1	49·1	− 8·1	66	11	2	0·03	−0·67	*	*	*	*
	Pembroke	56	43	55·0	46·1	50·2	− 5·5	57	0	3	0·12	−0·33	57·7	+ 3·1	50	+ 3
	Arlington (N. Devon)	59	37	56·7	42 6	49·2	− 6·2	50	0	2	0·26	−0·52	*	*	*	*
	Cullompton 𝔄	63	32	60·9	41·0	50·3	− 6 7	62	3	3	0·13	−0·41	49·5	+ 4·3	43	+ 3
	Falmouth	62	43	59·2	46·7	52·5	− 4·5	74	0	1	0·05	−0·55	59·4	+ 6·8	53	+ 7
	Plymouth	64	43	60·5	46·5	53·0	− 5·9	77	0	3	0·04	−0·43	46·1	− 1·1	41	− 1
	Prawle Point	64	41	60·0	45·4	52·2	− 3·4	71	0	3	0·06	−0·31	*	*	*	*
9. IRELAND, N.	Malin Head	54	44	51·9	46·1	48 8	− 6·2	48	0	4	0·05	?	*	*	*	*
	Londonderry	?	41	?	44·3	?	?	?	0	6	0·31	−0·28	*	*	*	*
	Mullaghmore	58	46	55·4	47·4	51·1	− 4·8	64	0	4	0·14	−0·52	*	*	*	*
	Belmullet	? 58	44	55·3	46·7	50·7	− 4·4	61	0	6	0·29	?	*	*	*	*
	Markree Castle	61	38	56·0	42·5	48·8	− 5·7	48	0	5	0·32	−0·38	55·9	+19·1	47	+16
	Brookeborough	61	35	57·5	41·3	48·8	− 5·9	51	2	1	0·02	−0·66	*	*	*	*
	Armagh	61	34	57·8	40·0	48·3	− 7·2	53	6	3	0·07	−0·43	58·2	+18·4	49	+15
	Donaghadee	59	45	56·9	47·9	52·1	− 2·8	71	0	2	0·06	−0·39	*	*	*	*
	Edgeworthstown	?	37	?	40·2	?	?	?	?	4	0·27	−0·44	*	*	*	*
10. IRELAND, S.	Dublin	62	40	59·1	44·3	51·2	− 6·0	64	0	3	0·08	−0·34	53·8	+10·8	46	+ 9
	Parsonstown	62	35	58·9	39 9	48·7	− 7·3	56	6	2	0·12	−0·43	36·2	− 4·4	31	− 4
	Kilkenny	61	38	58·3	42·4	49·8	− 6·7	55	0	1	0 04	−0·47	*	*	*	*
	Waterford	68	38	61·9	42·8	51·7	− 5·6	68	0	0	—	−0·56	*	*	*	*
	Roche's Point	61	42	59·6	47·4	53·1	− 4·4	78	0	0	—	−0·73	*	*	*	*
	Valencia	59	42	58·6	46·1	51·9	− 4·5	69	0	4	0·09	−0·68	50·6	+ 4·6	44	+ 4
	Killarney	59	34	57·5	43·1	49·8	− 6·0	55	0	3	0·07	?	*	*	*	*
	Foynes	62	41	59·3	45·0	51·7	− 4·4	68	0	3	0·26	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	60	48	58·0	50·3	53·9	− 2·9	83	0	1	0·02	−0·40	*	*	*	*
	Jersey	62	47	60·0	50·1	54·7	− 3·6	89	0	1	0 12	−0·33	65·3	+10·5	58	+ 9

Stations marked 𝔄 are in connection with the Royal Meteorological Society, and those marked 𝔖 with the Scottish Meteorological Society.

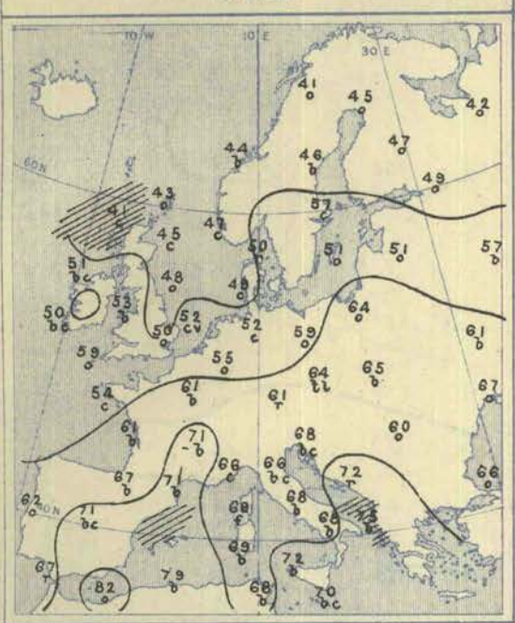
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory and the Meteorological Office, Victoria Street. For additional Reports of Sunshine see last page.

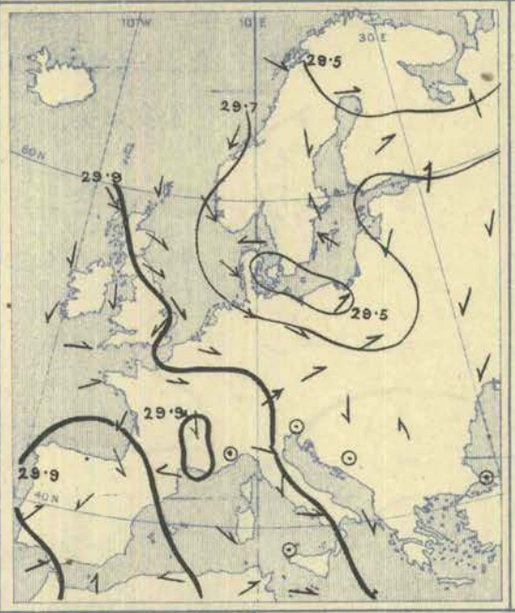
III.—SUMMARY OF WEATHER OVER EUROPE.

Sunday, 12th June.

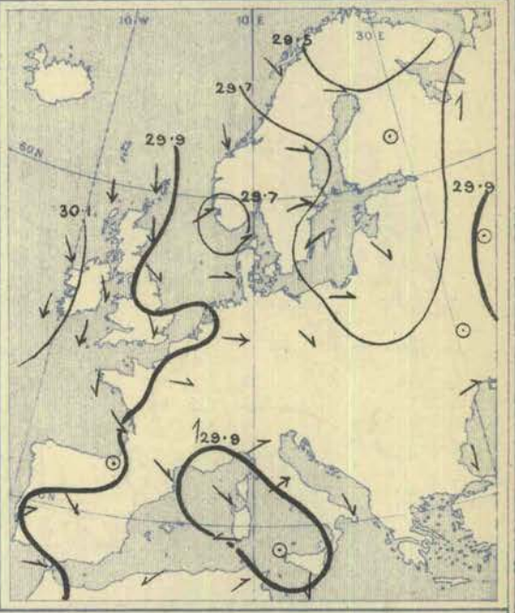
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning dull and very unsettled over the northern and eastern parts of our Islands, the North Sea, northern and central Europe, with rain in several places, but clearing up in the west of our Islands, and continuing fine over Spain and the Mediterranean. Rain falling during day in the north and east of the British Isles, and at some Continental stations; thunderstorms occurring over the southern half of France, and also at Constantinople.

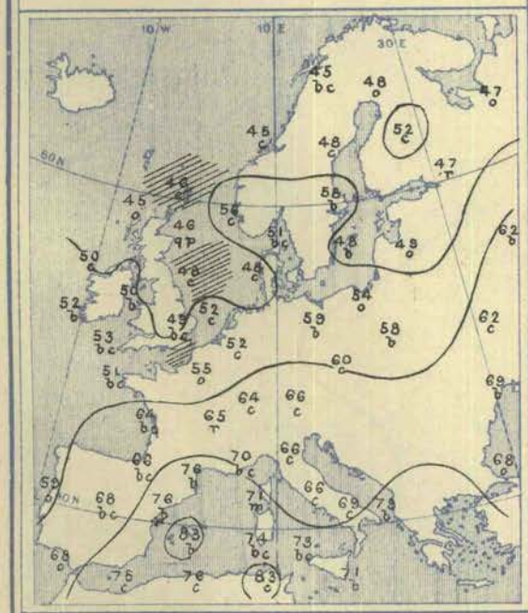
Temperature fallen considerably over the United Kingdom and western Europe. Morning readings 82° at Oran, and exceeding 70° at most of the Mediterranean stations and in Spain; below 50° in many parts of our Islands, as well as over Scandinavia, Finland, and northern Russia. Lowest of all, 41° at Bodö, 42° at Archangel, 43° at Sumburgh Head, and 48° to 49° over central England. Not touching 55° over the south-eastern half of England all day, but rising to nearly 60° in some parts of Ireland and the north of England, exceeding 70° over Germany, and exceeding 80° in many parts of southern Europe, the highest reading of all being 91° at Bordeaux.

Wind North-Westerly to Northerly over the United Kingdom, Westerly in the Channel and north of France, and of moderate strength; North-Westerly, strong, over the Netherlands and Holstein, South-Easterly over the Baltic Provinces and the south of Sweden. Very variable in direction elsewhere and light in force. The Northerly breezes extending to our southern counties later; no important change occurring elsewhere.

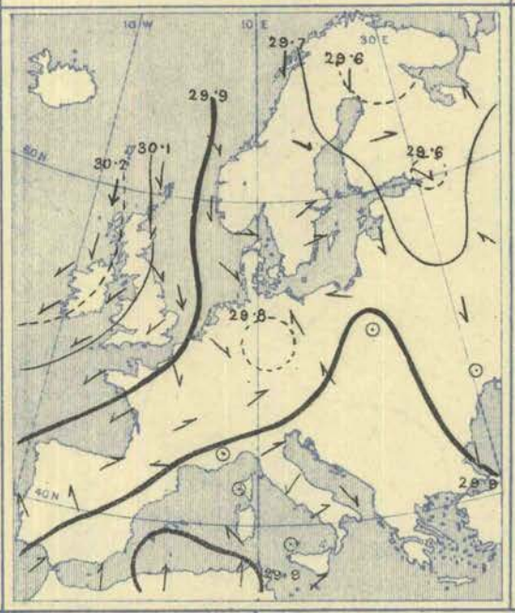
Barometer highest, (1) 30·1 ins. and more to 29·9 ins. over the western parts of our Islands and France, and exceeding 29·9 ins. over the Mediterranean; (2) exceeding 29·8 ins. over central Russia. Lowest, 29·4 ins. and less in an elongated depression lying over the Sound, the south of Sweden and the extreme north of Germany; 29·5 ins. and less over Lapland, the Kola Peninsula, and White Sea. Very small shallow depression lying over the south of France. Barometer rising over our Islands later. Depression over the south of Sweden dividing into two portions and partially filling up.

Monday, 13th June.

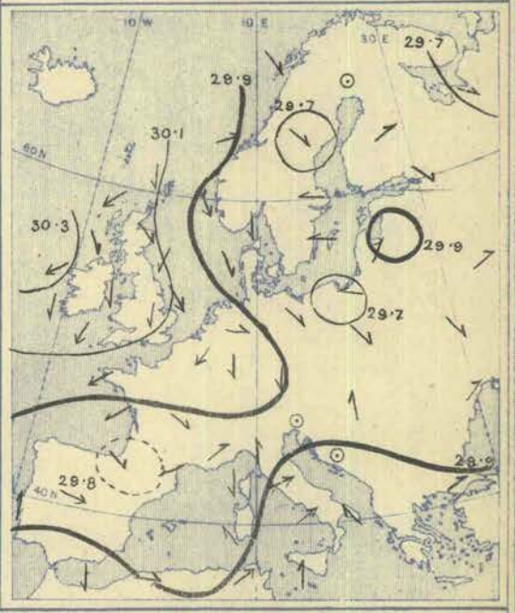
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning still fine and bright over Spain, the west and south of France, and many parts of the Mediterranean, and improving over the western parts of the British Islands; cloudy and rather unsettled elsewhere, overcast in many places, with rain in the north of Ireland, at Lyons, Kharkov, and St. Petersburg. Much rain over Sweden later, showers in the north and east of our Islands and in Germany, thunderstorms over the southern half of France.

Temperature low for the time of year over the British Islands and their neighbourhood. Morning readings, 83° at La Calle, exceeding 70° at most of the Mediterranean stations, and exceeding 60° over southern, central, and south-eastern Europe generally; lower elsewhere. Lowest, 45° to 49° in the north and north-east of our Islands, 45° at Bodö and Christiansund, 47° at Archangel and St. Petersburg, 49° at Riga. Rising later to between 55° and 60° over Ireland and England, to 72° at Berlin, and to 88° and more over the greater part of southern Europe, the highest readings of all being 95° at Cape Béarn, and 91° at Bordeaux.

Wind moderate from the Northward over the United Kingdom, and from North-East over the Channel, the north of France, and the Bay of Biscay; Easterly in the south of France, South-Easterly over Spain, Southerly in Algeria; cyclonic circulation of light winds reported over Germany; very variable elsewhere. Blowing strongly from North-West on the Norwegian coasts later, and shifting to the same quarter over the greater part of Germany.

Barometer highest, 30·2 ins. and more to 30·0 ins. in the eastern portion of a high pressure area spreading in from the Atlantic over the British Islands. Lowest, 29·6 ins. and less over the north of Finland and in the neighbourhood of St. Petersburg, 29·75 ins. and less over the Skager Rack, 29·8 ins. and less over western Germany and also over southern Russia; distribution very irregular over the Continent generally. Rising unsteadily over our Islands later, falling over Sweden and the Baltic, as well as in the south of France, where a shallow depression appeared in evening.

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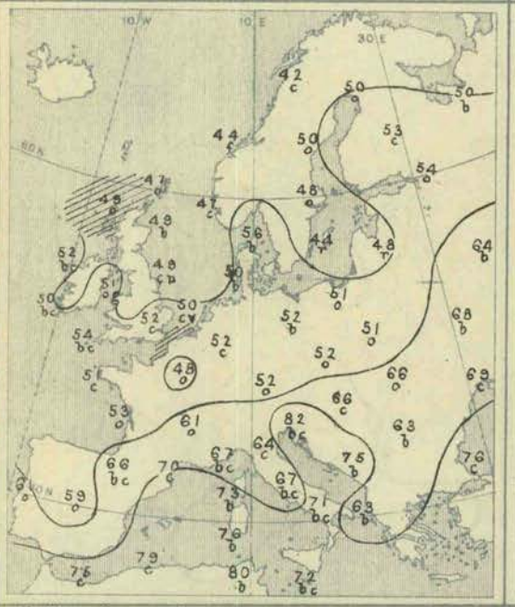
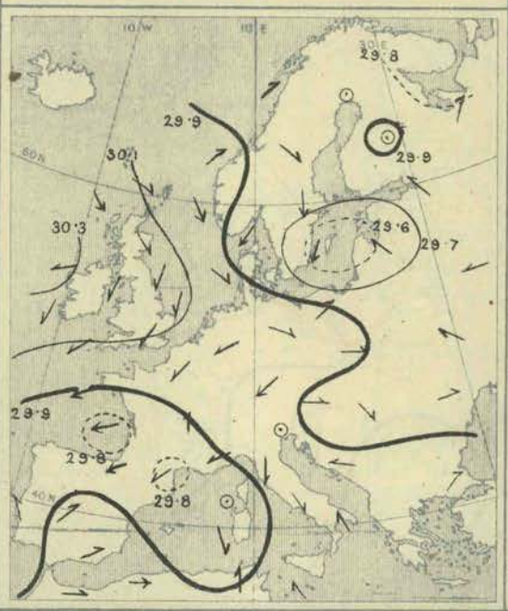
III.—SUMMARY OF WEATHER OVER EUROPE.

Tuesday, 14th June.

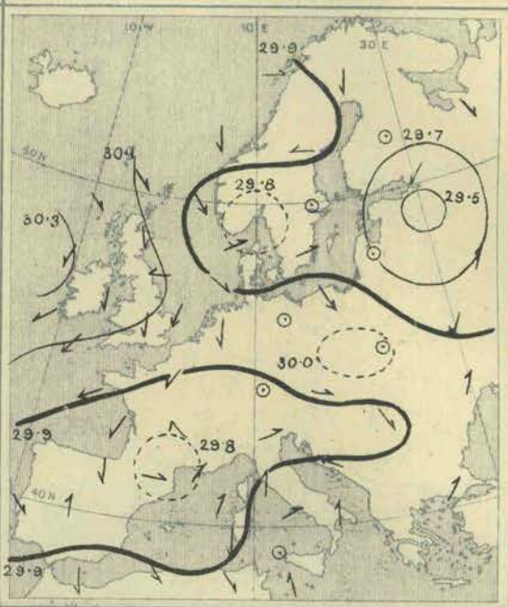
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather rainy over the Baltic, and dull over France, Spain, and the more central parts of the United Kingdom, fine in nearly all other parts of Europe, but a solar halo reported at Jersey. Scarcely any rain falling in our Islands during day, but large amounts reported at some of the French and German stations, with thunderstorms in the south of France, as well as at Algiers.

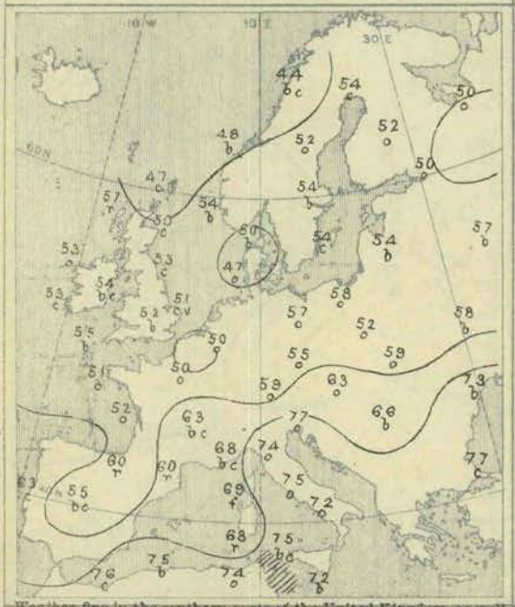
Temperature highest, 82° at Trieste, 80° at La Calle, 79° at Algiers, and 76° at Barcelona, Cagliari, and Constantinople; above 70° on the Mediterranean and Adriatic generally. Lowest, 42° at Bodö, 44° at Christiansund and Wisby, and 47° at Haparanda, Skudesnaes, and Sumburgh Head; below 50° in many parts of our Islands, and also over central France. Daily maxima below 60° in nearly in all parts of the United Kingdom, and below 55° in some places. Succeeding night very cold over England, thermometer in screen descending to 33° at Loughborough and Cambridge, and instrument fully exposed on grass falling to 27° at Oxford, 28° at Loughborough, and 31° in London.

Wind moderate to fresh from the Northward or North-Westward in the north and east of our Islands, as well as in Denmark, Germany, and the south of Norway, but North-Easterly or Easterly over the western and southern parts of the United Kingdom, as well as over the greater part of France. A cyclonic circulation of moderate to strong winds was reported at the Baltic stations, but light variable breezes over Russia generally, as well as in Italy and Algeria. No important change occurring later

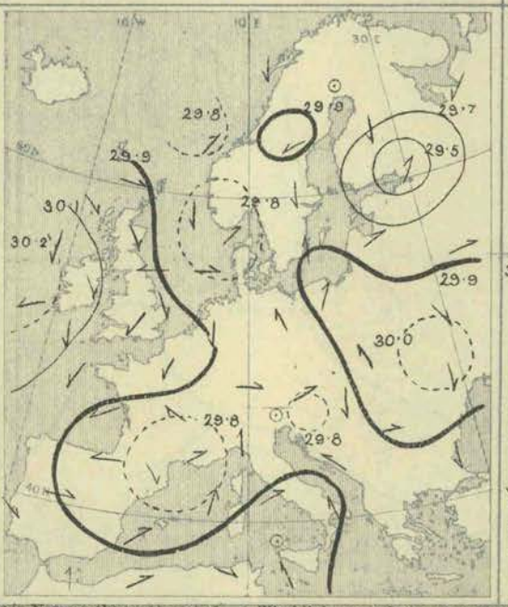
Barometer highest, 30·2 ins. to 30·3 ins. in an anticyclone lying over the west and north of our Islands. Lowest, 29·6 ins. and less in a well marked depression lying over the Baltic, 29·8 ins. and less in three other systems, one lying over the south-west of France, another near the Gulf of Lion, and a third off the Portuguese coast. Barometer falling over western Europe during day, and shallow low pressure systems beginning to approach our Islands from the northward. Depressions over the Baltic and the south-west of France moving steadily eastwards.

Wednesday. 15th June.

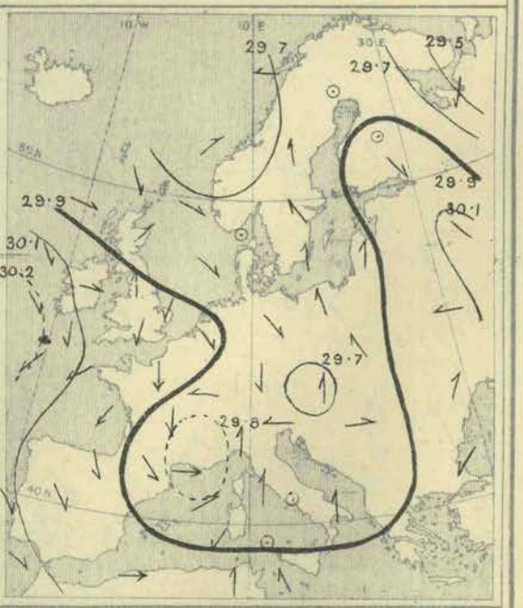
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather fine in the southern parts of the United Kingdom, as well as in Norway, the south-east of France, the southern parts of Spain and Russia, and at the Algerian stations; cloudy or overcast elsewhere, with passing showers in the north of Ireland, and with steady rain in the Hebrides, as well as at several of the French stations. Rain falling later in all the more northern parts of the United Kingdom, and thunderstorm occurring in the south of France. Large quantities of rain falling during day in Austria and northern Italy.

Temperature highest, 81° at Brindisi, 78° at Palma, 77° at Trieste and Constantinople, and 76° at Barcelona and Oran, above 70° over the Mediterranean and Adriatic generally, as well as in the south of Russia. Lowest, 44° at Bodö, 47° at Fanö and Sumburgh Head, and 48° at Christiansund; ranging between 50° and 55° in nearly all parts of northern and north-western Europe, but as high as 58° at Leith. Daily maxima over our Islands a little higher than of late, thermometer exceeding 60° in many parts of England, and reaching 67° at Leith; exceeding 80° in many parts of southern and eastern Europe, the highest reading of all being 81° at Trieste, Brindisi, and Palermo.

Wind light or moderate from North-West in the north and east, and from North or North-East in the south of our Islands, and the west and north of France; light from West in Spain, from South-West in Algeria, and from South or South-East in Italy, but variable in the south of France, as well as in Austria and the south of Russia; Easterly or North-Easterly in Germany. Two distinct cyclonic circulations of light breezes reported respectively over northern Russia, and over Denmark and the south of Norway. Subsequently backing to the South-Westward on the north-east coasts of Great Britain, and becoming variable in the south-east of England.

Barometer highest, 30·1 ins. to 30·2 ins. and upwards in an anticyclone extending from the Atlantic over the western parts of our Islands. Lowest, 29·5 ins. and less in a well marked depression with its centre near St. Petersburg, 29·8 ins. and less in three shallow disturbances, one lying off the west of Norway, another over Denmark, and a third over the south of France and the adjacent parts of the Mediterranean. Russian depression subsequently travelling away to the north-eastward; disturbance off west of Norway spreading south-eastwards, and barometer falling over the whole of our Islands and the North Sea.

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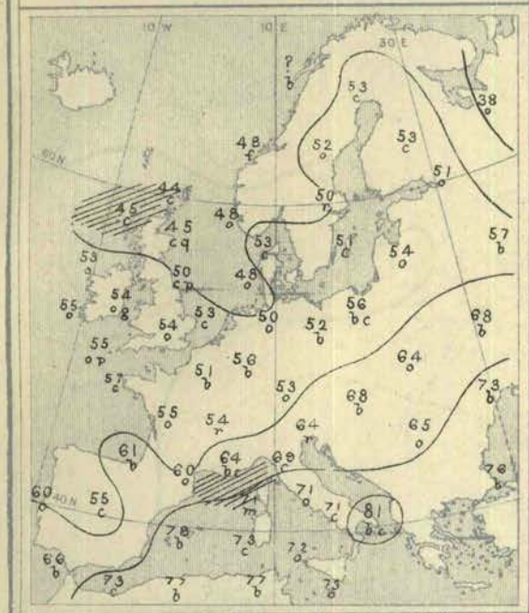
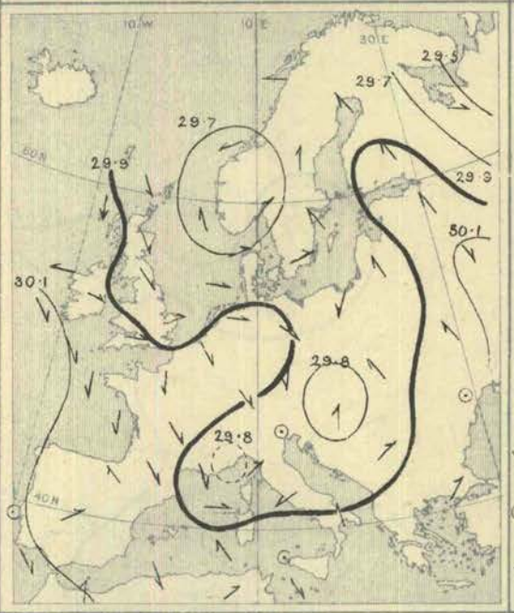
III.—SUMMARY OF WEATHER OVER EUROPE.

Thursday, 16th June.

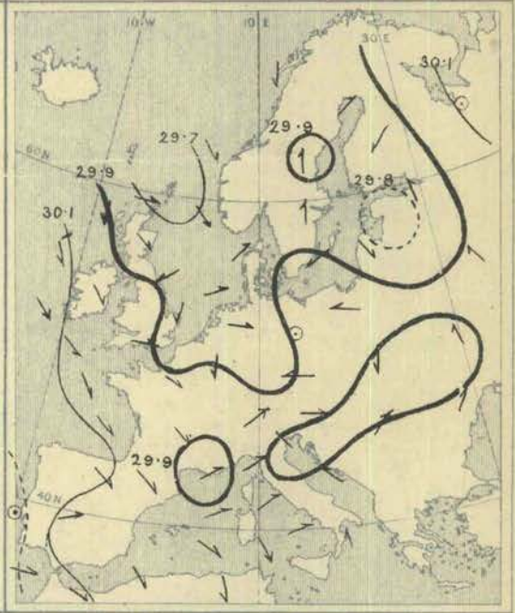
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather cloudy and showery over the greater part of our Islands and the Continent, but fine and bright at some of the German stations, as well as in Algeria and the southern parts of Spain, Italy, and Russia. Some improvement taking place later in the west of our Islands, but weather remaining showery elsewhere. Heavy rain falling in Austria and Bavaria, and a thunderstorm occurring at Nice.

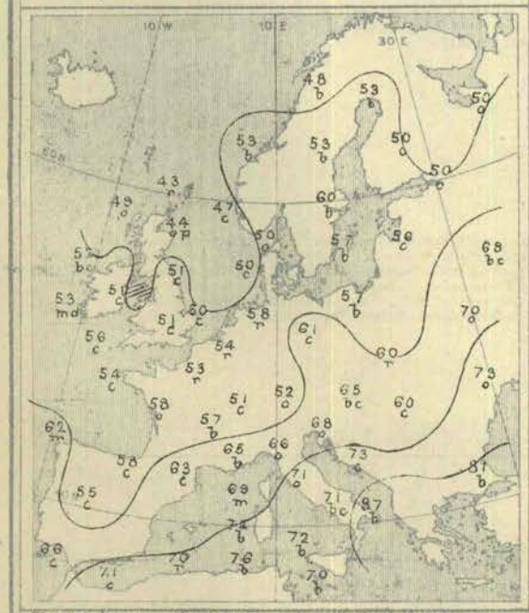
Temperature highest, 81° at Brindisi, 78° at Palma, 77° at Algiers and La Calle, and 76° at Constantinople, above 70° at most of the Mediterranean stations, but below 65° in the Riveria. Lowest, (1) 38° at Archangel; (2) 44° at Sumburgh Head, and 45° at Stornoway, Wick, Nairn, and Aberdeen; below 55° in nearly all parts of the United Kingdom and France, but slightly above that point at the Channel stations. Rising later to between 60° and 63° over the central and southern parts of England, but remaining below 55° at most of our northern stations. Reaching 70° at Berlin, and exceeding that point in most parts of southern and eastern Europe, the highest reading of all being 86° at Palermo and Sanguinaire.

Wind light to fresh from the Northward or North-Westward over the western and northern parts of the United Kingdom, and also in France, but Westerly in the central and south-eastern parts of England, and also in Denmark; rather variable over northern and central Europe, but cyclonic circulations prevailing respectively over Norway, the Baltic Provinces, and Austria; Southerly or South-Westerly in Italy, very variable in Spain and Algeria. Backing later to the Westward over France; no important change occurring elsewhere.

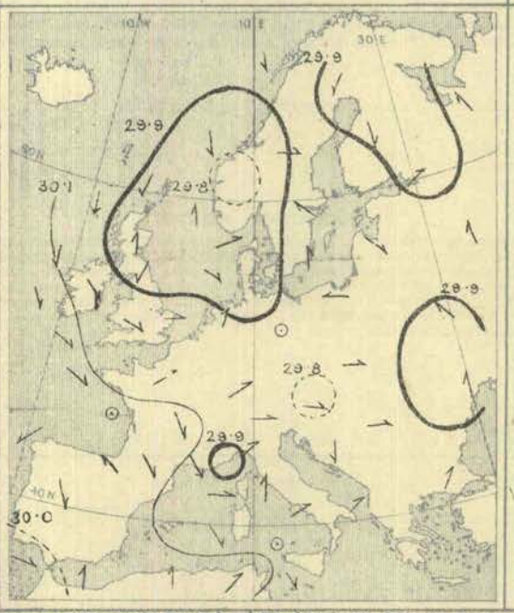
Barometer highest, 30·1 ins. and upwards in a large anticyclone extending from the Atlantic over Portugal and the extreme south-west of Ireland, as well as in another system lying over central Russia. Lowest, 29·7 ins. and less in a large shallow depression lying over the southern parts of Norway, and also in a smaller disturbance lying over the Baltic Provinces, 29·8 ins. and less in two other systems lying respectively over Austria and the south-east of France. Small shallow depressions—secondary to the Norwegian disturbance—travelling south-eastwards across our Islands during day, and barometer changing very irregularly over western Europe.

Friday, 17th June.

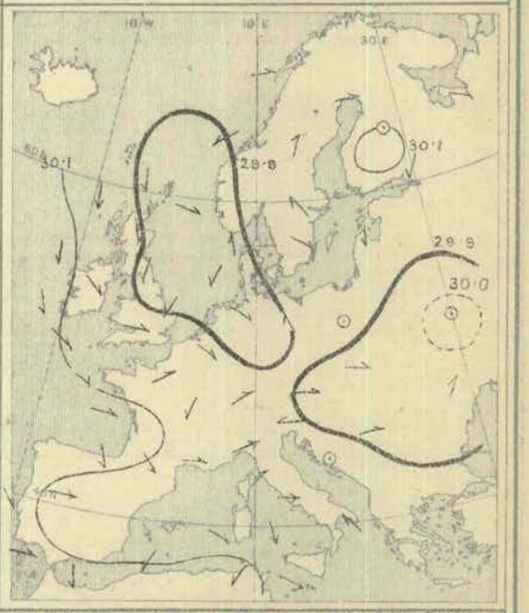
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather fair over the greater part of England, but showery in Ireland and Scotland; fine and bright in Finland and Scandinavia, as well as in Italy, the south of France, and Tunis; cloudy in other parts of the Continent, with rain at Paris, Brussels, Cuxhaven, and Lemberg. Showers falling during the day in nearly all parts of Great Britain, with thunder and lightning at some of the northern and eastern stations, as well as at the Helder and Algiers.

Temperature highest, 87° at Brindisi, 81° at Constantinople, 76° at La Calle, and 73° at Odessa and and Nicolaieff; above 65° in most parts of southern and eastern Europe, but below 60° over central Spain. Lowest, 43° at Sumburgh Head, 44° at Aberdeen, 47° at Skudesnaes and Wick, and 48° at Bodö, Nairn, Leith, and Liverpool; below 55° over north-western Europe generally, and also in south Germany. Daily maxima below 60° in all but the south-western parts of the United Kingdom; ground frost occurring over central England at night. Thermometer rising above 70° in the south of France and also in some parts of Germany; exceeding 80° in southern Italy and Algeria, the highest European reading being 90° at Brindisi.

Wind moderate from the Northward or North-Westward over the greater part of the United Kingdom but Easterly or North-Easterly in the extreme north of Scotland; Southerly over Germany, Denmark, and the south of Scandinavia, but Northerly in Finland and the north of Scandinavia; light and very variable over the greater part of Russia and Austria, but chiefly Southerly in Italy and Algeria, and South-Easterly or Easterly over the northern parts of the Spanish Peninsula. Subsequently backing to the Westward in the south of England; no important change occurring elsewhere.

Barometer highest, 30·1 ins. to 30·2 ins. in a large anticyclone extending from the Atlantic over the south-west of Ireland, the Bay of Biscay, the southern parts of France, Spain, and Algeria. Lowest, 29·8 ins. and less in a shallow depression lying over central Norway, 29·9 ins. and less in a large complex area covering the greater part of Scandinavia, Denmark, the North Sea, and the eastern parts of Great Britain, as well as in several shallow disturbances lying over various parts of the Continent. Numerous small depressions passing south-eastwards across Great Britain and North Sea during day.

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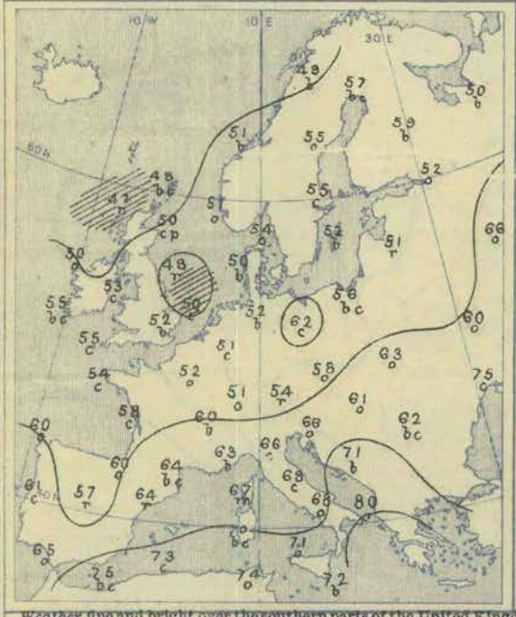
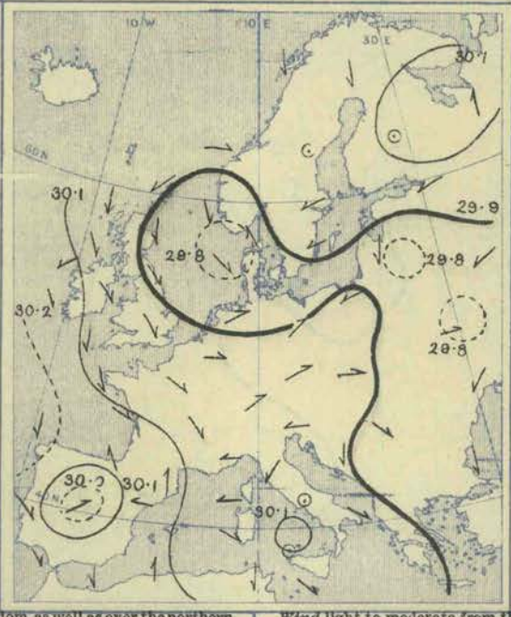
III.—SUMMARY OF WEATHER OVER EUROPE.

Saturday, 18th June.

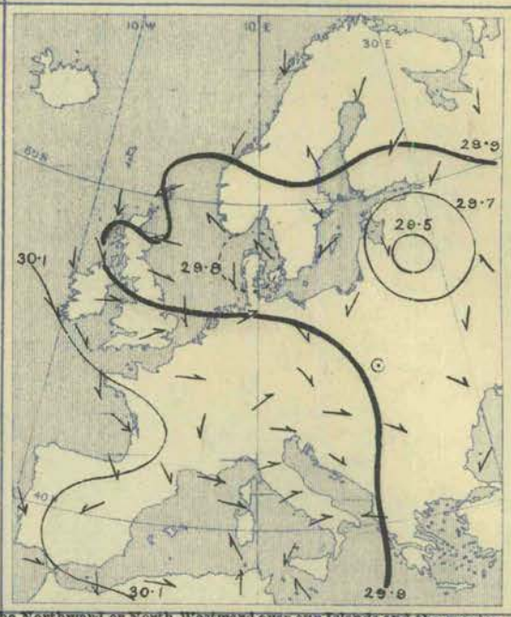
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather fine and bright over the southern parts of the United Kingdom, as well as over the northern parts of Russia and Scandinavia, Austria, and the southern parts of France and Russia; cloudy or overcast elsewhere, with rain in Scotland and the north-east of England, as well as at some of the French, German, and Spanish stations. Showers falling later in nearly all parts of the United Kingdom, with thunder in the east and south-east of England. Rain occurring at many of the Scandinavian, Danish, and Russian stations, and a thunderstorm reported at La Calle at night.

Temperature highest, 83° at Constantinople, 80° at Brindisi, 75° at Oran and Odessa, and 74° at La Calle; above 65° in most parts of southern and eastern Europe, but below it in Spain and the south of France. Lowest, 47° at Stornoway, Nairn, and Malin Head, and 48° at Sumburgh Head, Wick, Shields, York, and Spurn Head; below 55° in most parts of north-western Europe. Rising during day to 60° or a little more over the central and southern parts of England, and to 70° or more in most parts of southern Europe, the highest reading of all being 86° at Palermo and Sanguinaire.

Wind light to moderate from the Northward or North-Westward over our Islands and the greater part of France, from the Westward or South-Westward in Germany and Austria, and from the Eastward over the Gulf of Finland and the south of Scandinavia; variable over the central and southern parts of Russia, and also in Italy; light from the Southward in Algeria. Cyclonic circulation of light breezes reported over Spain and the south of France. Very little change occurring over western Europe during day, but another cyclonic circulation appearing over Russia in evening.

Barometer highest, 30·2 ins. and upwards in an anticyclone lying over the Atlantic to the south-westward of Ireland and the westward of Portugal, 30·1 ins. and upwards in another system lying over the north of Russia. Lowest, 29·8 ins. and less in two shallow depressions, one lying over Denmark and the extreme south of Norway, and the other over Little Russia; 30·0 ins. and less in a third disturbance over central Spain. Well marked depression appearing later over the Baltic Provinces, and small shallow disturbances over the northern parts of Great Britain; Spanish depression filling up.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇛ = a heavy gale; ➤ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During the greater part of the week barometrical pressure was highest in an anticyclone lying either to the westward or south-westward of our Islands, the only instance of the presence of any continental high pressure system being afforded on the 25th, when a second anticyclone appeared temporarily over Russia. Over the Continent generally the distribution was very irregular, numerous shallow depressions being found in the various parts of the more northern, central, and southern countries. The winds in those regions were therefore light and variable, and the weather exceedingly unsettled, with heavy falls of rain over the central countries, and with frequent thunderstorms in France. Over the United Kingdom the wind was mostly light or moderate from the Northward or North-Westward, and the weather changeable and showery, with thunderstorms in some of the northern and eastern districts. At the close of the week the European depressions were filling up, but the general distribution of pressure was still very irregular, and cloudy, showery weather was prevalent in most countries.

BRIGHT SUNSHINE Values for the Week in addition to those found on page 140.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	33·9	?	28	?	EASTBOURNE	42·1 *	?	37	?
OSWALDKIRK (Yorkshire)	31·2	?	26	?	TENBY	52·1 *	?	45 *	?
WORKSOP	23·3	− 1·1	30	− 1	NEWQUAY	55·5	?	49	?
THURCASTON (Leicestershire)	37·7	+ 0·5	33	+ 1	TORQUAY				
MARGATE	34·9	?	31	?	ARLEY COTTAGE (County Cavan)	56.8	?	48	?
WESTBOURNE (Sussex)	36·6 *	?	32 *	?	GUERNSEY	72·9 *	?	65 *	?
BRIGHTON	47·7	?	42	?					

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.
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VOL. IX. No. 25.] *Third Series.* WEEK ENDING SATURDAY, 25TH JUNE, 1892. [*Price 6d.* [*Annual subscription post paid, £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years' observations (1871–90). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the ten years 1881-90. RAINFALL.—*The Mean amounts* are those for the corresponding periods in the twenty-five years 1866–90, but the *Mean numbers of Rainy Days* are those for the ten years 1881-90, only. BRIGHT SUNSHINE.—*The Mean values* employed are those for the corresponding periods in the ten years 1881–90.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

DISTRICTS. (See p. 146.)	Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
							For the Week.				From January 3rd, 1892.			
	Highest.	Lowest.	Averages of Daily Maxima.	Averages of Daily Minima.	Averages of Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.														
0. SCOTLAND, NORTH	67	33	58·0	43·2	50·1	3 below.	57	− 8	0	− 1	581	+ 8	754	+212
1. SCOTLAND, EAST	68	32	58·5	43·9	50·7	4 below.	61	−26	0	0	716	−62	810	+241
2. ENGLAND, N.E.	72	40	58·7	46·2	51·9	5 below.	69	−24	0	0	771	− 6	684	+186
3. ENGLAND, EAST	72	38	64·7	46·5	55.0	3 below.	91	−14	0	0	942	−14	771	+210
4. MIDLAND COUNTIES	72	36	64·5	46·0	54·6	3 below.	88	−17	0	0	1018	+33	802	+250
5. ENGLAND, SOUTH	72	40	63·1	48·5	55·3	4 below.	93	−19	0	0	1031	−31	554	+138
Principal Grazing, &c., Districts.														
6. SCOTLAND, WEST	66	34	61·0	45·7	52·9	3 below.	76	−14	0	0	790	−18	610	+193
7. ENGLAND, N.W.	68	40	61·2	47·1	53·7	3 below.	82	−15	0	0	848	− 9	579	+165
8. ENGLAND, S.W.	71	37	62·0	47·9	54·5	3 below.	88	−17	0	0	1011	+ 1	433	+117
9. IRELAND, NORTH	69	37	60·8	47·5	53·7	2 below.	82	−10	0	0	881	−41	484	+122
10. IRELAND, SOUTH	69	36	63·1	47·8	54.9	3 below.	90	−12	0	0	1059	−14	410	+132
— CHANNEL ISLANDS	66	46	63·0	52·4	57·4	1 below.	108	− 1	0	0	1140	+14	164	+ 42

Rainfall.

DISTRICTS. (See p. 146.)	For the Week.			From January 3rd, 1892.			
	Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Number of Rainy Days.	Difference from Mean.	Total Fall.	Difference from Mean.
		10ths of In.	10ths of In.			Ins.	Ins.
Principal Wheat-producing Districts.							
0. SCOTLAND, NORTH	3	4	3 less.	118	+ 4	19·4	− 1·9
1. SCOTLAND, EAST	5	8	3 more.	94	+ 3	11·5	− 1·8
2. ENGLAND, N.E.	5	10	6 more.	95	+10	10·6	− 0·2
3. ENGLAND, EAST	6	12	7 more.	89	+ 5	9·0	− 1·7
4. MIDLAND COUNTIES	5	8	3 more.	80	− 2	8·9	− 3·3
5. ENGLAND, SOUTH	5	10	6 more.	68	−13	7·2	− 4·8
Principal Grazing, &c., Districts.							
6. SCOTLAND, WEST	4	9	2 more.	92	− 5	17·2	− 4·7
7. ENGLAND, N.W.	4	8	2 more.	91	+ 2	13·4	− 0·4
8. ENGLAND S.W.	4	3	3 less.	82	−10	10·6	− 6·6
9. IRELAND, NORTH	5	5	1 less.	98	− 5	14·8	− 0·7
10. IRELAND, SOUTH	4	6	0 (average)	87	−10	14·5	− 3·1
— CHANNEL ISLANDS	5	7	2 more.	87	−12	11·9	− 2·1

Bright Sunshine.

DISTRICTS. (See p. 146.)	For the Week.				From January 3rd, 1892.			
	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.								
0. SCOTLAND, NORTH	42	− 4	34	− 2	653	+ 34	30	+ 1
1. SCOTLAND, EAST	30	−11	25	− 9	755	+ 50	34	+ 2
2. ENGLAND, N.E.	28	−10	24	− 8	739	+111	34	+ 5
3. ENGLAND, EAST	41	− 7	36	− 5	823	+ 73	38	+ 3
4. MIDLAND COUNTIES	37	− 5	32	− 3	804	+140	37	+ 6
5. ENGLAND, SOUTH	41	− 4	36	− 3	891	+181	41	+ 8
Principal Grazing, &c., Districts.								
6. SCOTLAND, WEST	41	− 2	35	− 2	780	+ 89	35	+ 3
7. ENGLAND, N.W.	44	+ 1	37	+ 1	815	+136	37	+ 6
8. ENGLAND S.W.	42	− 9	37	− 8	933	+136	43	+ 6
9. IRELAND, NORTH	36	+ 1	31	+ 3	724	+ 53	33	+ 2
10. IRELAND, SOUTH	37	− 5	32	− 3	806	+ 46	37	+ 2
— CHANNEL ISLANDS	44	−16	40	−14	1022	+102	47	+ 5

Bright Sunshine.—For several of the stations there are no "mean" values available, and the "difference from the mean" in some of the districts is consequently that of only a few of the stations.

General Remarks.

Weather during this week was somewhat cloudy or dull with frequent and rather heavy falls of rain; there were, however, several very bright intervals. Thunder and lightning occurred at times in different parts of the Kingdom.

Temperature was again below the mean, the deficit ranging from 1° in the Channel Islands and 2° or 3° in most of the other western districts to 5° in England N.E. The highest of the maxima, which were registered on rather irregular dates, ranged from 72° over the greater part of England to 66° in Scotland W. and the Channel Islands. The lowest of the minima were recorded during the earlier part of the period in England and Ireland, but on irregular dates in Scotland; they ranged from 32° in Scotland E. to 40° in England, N.E., S., and N.W., to 46° in the Channel Islands.

Rainfall exceeded the mean in nearly all districts, but was less in Scotland N., England S.W., and Ireland N. In the eastern and southern parts of England the excess was rather large.

Bright Sunshine was less prevalent over the Kingdom as a whole than for some weeks past, and was less than the mean in nearly all districts. The percentage of the possible duration ranged from 24 in England N.E. and 25 in Scotland E. to 37 in England N.W. and S.W. and to 40 in the Channel Islands.

Barometer and Wind.—During this period the barometer was generally highest to the southward of our Islands, and depressions (mostly shallow) appeared over various parts of our Islands and their immediate neighbourhood. The winds varied a good deal in direction, but were generally from a Westerly point in the southern districts, and frequently from the North-Eastward or Eastward in the north. At the end of the week a depression travelling North-North-Eastwards was skirting our western coasts and the wind in most places had shifted to the Southward.

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II.– DATA from which the SUMMARY on page 145 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	57	42	53·6	44·7	48·8	− 1·7	48	0	4	0·24	−0·24	*	*	*	*
	Stornoway	60	39	55·3	41·7	48·0	− 4·7	42	0	4	0·27	−0·43	37·1	− 3·5	30	− 2
	Wick	61	33	56·4	42·6	49·0	− 3·9	49	0	2	0·18	−0·24	*	*	*	*
	Lairg Ⓢ	65	33	59·6	40·3	49·3	− 4·3	58	5	5	0·83	+0·26	*	*	*	*
	Glencarron Ⓢ	64	36	59·5	42·6	50·5	− 2·3	60	0	2	0·45	−0·80	*	*	*	*
	Fort Augustus Ⓢ	67	40	60·0	45·0	52·0	− 3·0	70	0	4	0·30	−0·26	30·2	?	25	?
	Fort William Ⓢ	64	40	61·6	45·7	53·1	− 2·4	78	0	3	0·59	−0·40	57·7	?	47	?
1. SCOTLAND, E.	Nairn	64	32	59·6	43·1	50·8	− 4·9	62	0	3	0·23	−0·20	*	*	*	*
	Aberdeen	62	40	55·7	44·4	49·7	− 5·2	54	0	4	0·81	+0·37	33·4	−10·8	27	− 9
	Braemar Ⓢ	62	34	57·9	40·6	48·7	− 4·3	53	4	6	0·45	−0·13	28·3 †	?†	23†	?†
	Ochtertyre Ⓢ	68	38	62·3	44·7	52·9	− 2·6	76	0	6	1.38	+0·72	*	*	*	*
	Leith	61	44	59·7	46·9	52·9	− 3·7	76	0	5	0·73	+0·25	*	*	*	*
	Marchmont Ⓢ	60	38	56·0	43·6	49·4	− 5·4	52	0	5	1·31	+0·68	27·0	?	22	?
2. ENGLAND, N.E.	Alnwick Castle	58	43	54·9	46·6	50·1	− 4·7	57	0	5	1·72	+1·22	*	*	*	*
	Durham	72	40	61·0	44·5	52·2	− 4·4	71	0	6	0·94	+0·46	23·6	−13·2	20	−12
	Shields	61	45	57·3	46·7	51·6	− 4·1	67	0	4	0·71	+0·29	*	*	*	*
	Scarborough Ⓜ	68	41	57·9	45·0	51·0	− 5·7	63	0	5	0·93	+0·45	*	*	*	*
	York	70	43	61·9	46·3	53·6	− 4·2	81	0	4	1·14	+0·62	32·5	− 6·1	28	− 4
	Spurn Head	68	45	59·0	48·0	53.1	− 3·9	78	0	6	0·66	+0·31	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	71	38	63·5	45·1	53·7	− 4·4	82	0	7	1·13	+0·60	40·2	− 3·1	34	− 5
	Yarmouth	69	44	61·1	47·9	54·0	− 3·7	84	0	6	1·07	+0·59	*	*	*	*
	Geldeston	71	41	65·4	45·7	54·9	− 2·9	90	0	6	1·23	+0·83	44·7	− 3·1	39	− 3
	Cambridge	72	39	67·6	47·6	56·9	− 2·3	104	0	5	1·78	+1·25	37·8	− 5·9	33	− 5
	Rothamsted	71	39	65·8	46·4	55·4	− 2·5	94	0	6	0·99	+0·44	42·9	?	37	?
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	70	39	63·1	46·4	54·2	− 4·1	85	0	5	0·39	−0·15	*	*	*	*
	Loughborough	72	43	66·9	47·6	56·6	− 2·9	102	0	5	0·89	+0·37	*	*	*	*
	Stamford (Ketton Hall)	71	39	66·3	45·6	55·2	− 4·1	92	0	6	1·04	+0·56	*	*	*	*
	Cheadle Ⓜ	66	41	61·5	46·4	53·4	− 2·6	80	0	6	1·05	+0·37	*	*	*	*
	Churchstoke Ⓜ	66	40	63·6	43·9	53·1	− 3·1	78	0	4	0·18	−0·34	39·3	− 1·4	34	− 1
	Hereford Ⓜ	72	39	66·1	46·0	55·4	− 3·1	94	0	5	0·93	+0·43	*	*	*	*
	Cirencester	68	36	63·6	43·7	53·0	− 4·2	77	0	5	1·22	+0·65	36·0	− 6·1	31	− 6
	Oxford	70	42	65·0	48·0	55·9	− 2·9	97	0	5	0·96	+0·42	30·9	− 1·9	36	− 2
5. ENGLAND, S.	London	72	44	67·0	48·1	56·9	− 3·5	104	0	5	1·03	+0·52	45·5 †	+ 6·7†	40†	+ 5†
	North Foreland	67	46	63·0	49·7	55·9	− 1·1	97	0	4	1·46	?	*	*	*	*
	Strathfield Turgiss Ⓜ	71	40	65·8	45·6	55·0	− 4·4	91	0	6	0·88	+0·40	*	*	*	*
	Dungeness	62	47	60·4	50·4	55·1	− 3·8	92	0	5	1·50	+1·12	*	*	*	*
	Hastings (St. Leonards)	63	45	60·2	48·9	54·2	− 4·5	85	0	5	1·33	+0·93	44·4	− 5·1	39	−2·5
	Southampton	69	44	65·0	49·2	56·6	− 3·0	102	0	6	0·52	+0·11	35·3	−11·4	31	−11
	Hurst Castle	64	46	61·9	50·3	55·7	− 3·2	96	0	6	0·47	−0·01	*	*	*	*
	Stowell Ⓜ	66	40	61·5	45·8	53·1	− 5·3	78	0	5	0·90	?	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	64	42	60·7	46·4	53·1	− 2·3	78	0	3	0·80	−0·39	*	*	*	*
	Glasgow	65	42	61·4	46·5	53·4	− 2·3	80	0	5	1·67	+1·00	25·5	−11·2	21	−10
	Ardrossan	66	42	60·4	47·9	53·7	− 2·8	82	0	3	0·39	−0·20	*	*	*	*
	Glenlee Ⓢ	66	34	62·9	40·9	51·5	− 5·4	71	3	4	0·79	0·00	*	*	*	*
	Douglas (Isle of Man)	64	40	59·3	46·9	52·9	− 2·8	76	0	4	0·90	+0·38	56·1	+ 6·4	48	+ 5
7. ENGLAND, N.W.	Newton Reigny	68	40	62·0	43·1	51·9	− 3·6	69	0	5	1·30	+0·78	45·9	+ 2.4	38	+ 3
	Stonyhurst	65	42	60·2	47·0	53·1	− 3·7	78	0	4	0·87	+0·04	38·7	− 2·9	33	− 3
	Blackpool Ⓜ	65	41	60·9	48·9	54·5	− 2·5	88	0	4	0·85	+0·35	48·5	+ 5·7	41	+ 5
	Manchester	65	41	61·7	45·9	53·3	− 3·7	79	0	6	0·84	+0·12	*	*	*	*
	Liverpool Obsy. (Bidston)	67	46	61·9	49·4	55·2	− 2·9	92	0	4	0·68	+0·18	*	*	*	*
	Llandudno Ⓜ												43·1	+ 2·9	37	+ 2
	Holyhead	64	44	60·6	48·4	54·1	− 2·8	85	0	3	0·45	−0·02	*	*	*	*
8. ENGLAND, S.W.	Llandovery	71	38	65·9	45·3	54·9	− 3·3	90	0	4	0·38	−0·34	*	*	*	*
	Pembroke	66	49	58·1	51·4	54·5	− 2·0	88	0	2	0·12	−0·34	52·4	− 0·9	46	− 1
	Arlington (N. Devon)	64	41	61·0	46·4	53·2	− 3·2	78	0	5	0·37	−0·46	*	*	*	*
	Cullompton Ⓜ	68	37	64·8	44·8	54·1	− 4·1	85	0	6	0·44	−0·14	34·5	− 9·5	30	− 9
	Falmouth	66	46	63·5	49·5	55·7	− 2·2	96	0	5	0·26	−0·36	40·4	−12·1	36	−10
	Plymouth	64	44	61·4	48·8	54·7	− 5·0	89	0	5	0·33	−0·16	33·1	−13·2	29	−13
	Prawle Point	62	45	59·6	49·4	54·1	− 2·5	85	0	4	0·26	−0·13	*	*	*	*
9. IRELAND, N.	Malin Head	64	46	58·1	48·9	53·2	− 2·4	78	0	3	0·70	?	*	*	*	*
	Londonderry	?	41	?	47·8	?	?	?	0	4	0·56	−0·06	*	*	*	*
	Mullaghmore	63	45	60·0	48·0	53·6	− 3·0	81	0	3	0·61	−0·09	*	*	*	*
	Belmullet	66	46	60 0	49·4	54·3	− 1·4	86	0	5	0·41	?	*	*	*	*
	Markree Castle	68	39	61·7	44·7	52·6	− 2·7	74	0	5	0·53	−0·25	43·8	+ 8·8	37	+ 7
	Brookeborough	68	40	62·1	46·1	53·5	− 2·1	81	0	5	0·59	−0·11	*	*	*	*
	Armagh	69	37	63·1	46·3	54·1	− 2·2	85	0	7	0·55	+0·02	34·9	− 3·3	30	− 2
	Donaghadee	63	48	60·7	49·3	54·6	− 1·2	88	0	7	0·55	+0·07	*	*	*	*
	Edgeworthstown	?	39	?	44·1	?	?	?	0	4	0·35	−0·37	*	*	*	*
10. IRELAND, S.	Dublin	67	45	62·6	48·7	55·2	− 3·0	92	0	6	0·44	0·00	36·5	− 4·5	31	− 3
	Parsonstown	69	41	53·9	45·9	54·3	− 2·5	86	0	4	0·65	+0·08	26·7	−12·5	23	−11
	Kilkenny	67	39	62·9	45·4	53·5	− 3·9	81	0	3	0·47	−0·04	*	*	*	*
	Waterford	69	40	65·5	46·1	55·1	− 3·0	92	0	4	0·23	−0·35	*	*	*	*
	Roche's Point	66	45	62·3	50·0	55·7	− 2·5	96	0	4	0·85	+0·13	*	*	*	*
	Valencia	64	41	61·6	49·3	55·0	− 2·1	91	0	5	1·43	+0·64	49·1	+ 5·1	43	+ 5
	Killarney	66	36	62·9	47·6	54·7	− 1·8	89	0	5	0·49	?	*	*	*	*
	Foynes	67	42	63·2	49·7	55·9	− 1·1	97	0	4	0·57	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	65	49	62·9	52·9	57·6	− 0·3	109	0	6	0·31	−0·16	*	*	*	*
	Jersey	68	46	63·0	51·9	57·1	− 2·3	106	0	4	1·06	+0·59	38·3	−15·3	34	−14

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

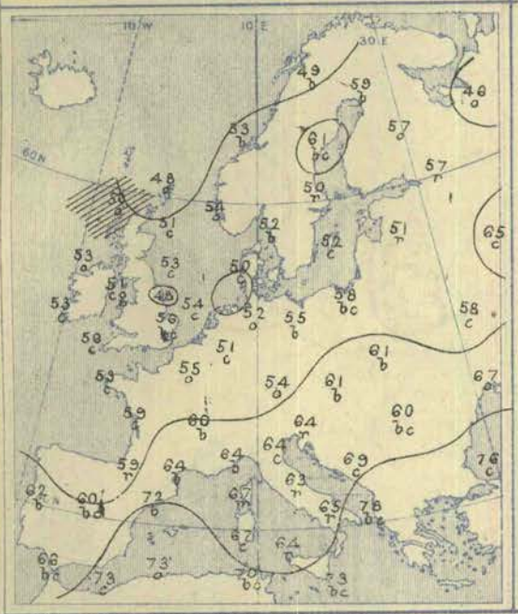
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory and the Meteorological Office, Victoria Street. For additional Reports of Sunshine see last page.

III.—SUMMARY OF WEATHER OVER EUROPE.

Sunday, 19th June.

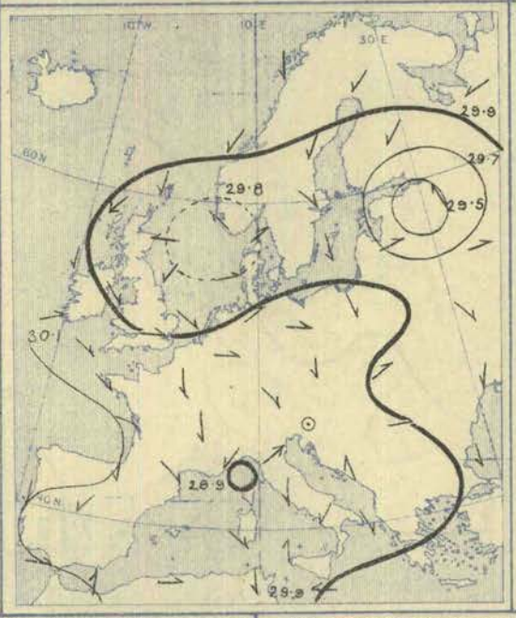
Temperature and Weather. 8 a.m.

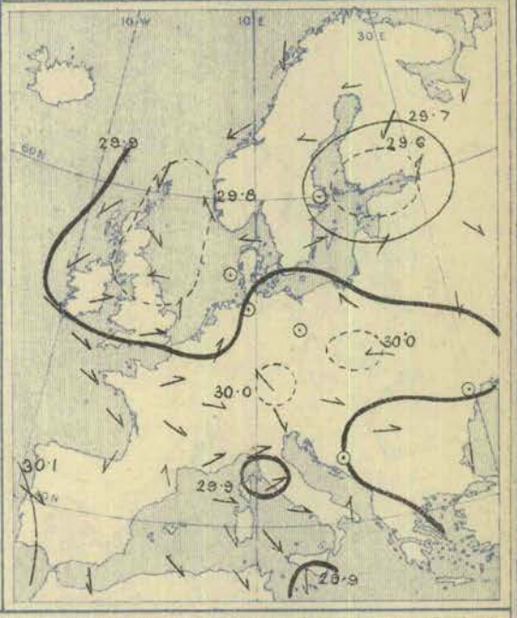


Weather in morning cloudy and showery over the greater part of the United Kingdom, as well as at many of the Scandinavian, Danish, Austrian, Spanish, and southern French stations; rainy over the Gulf of Finland and the Baltic Provinces, as well as in central Italy; dull over Russia generally. Considerable falls of rain taking place later over the northern parts of Great Britain and in Finland, showers in other districts; thunderstorms occurring at some of our eastern and south-eastern stations.

Temperature highest, 78° at Brindisi, 76° at Constantinople, and 73° at Oran, Algiers, and Malta; above 65° in most parts of southern and eastern Europe, but below it in Spain and the south of France. Lowest, (1) 46° at Archangel, and 51° at Hangö and Riga; (2) 48° at Sumburgh Head, York, and Spurn Head, and 49° at Bodö, Wick, and Nairn; below 55° in most parts of north-western Europe. Rising during day to between 60° and 65° in many parts of our Islands, exceeding 70° in France and Italy, and reaching 80° at Perpignan and in the south of Italy, and exceeding 90° in some parts of Algeria.

Barometer and Wind. 8 a.m. and 6 p.m.



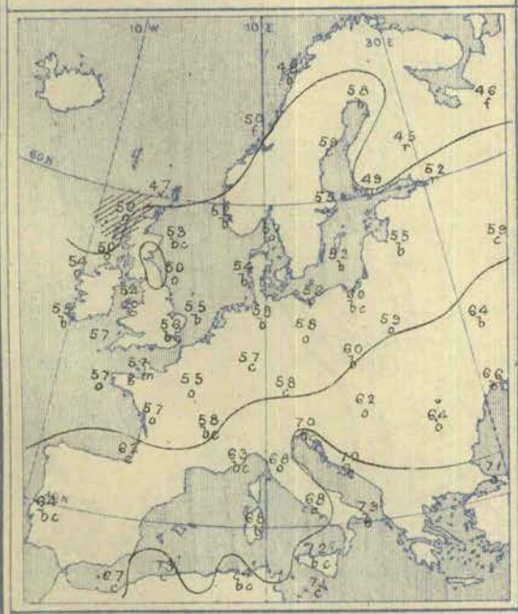


Wind light from between North and East over the west of Norway and the greater part of Scotland, from North-West or West in all the more western and southern parts of our Islands and in France, and from the South-Westward in Denmark. Cyclonic circulation of moderate to fresh breezes reported over northern Russia and the Gulf of Bothnia. Chiefly Northerly in Italy and south Germany, variable over Algeria and the Mediterranean. No important change occurring during day.

Barometer highest, 30·1 ins. to 30·0 ins. in an anticyclone covering the Bay of Biscay and north of Spain, and stretching in a "ridge" across France, Switzerland, and south Germany. Lowest, 29·5 ins. and less in a well marked depression lying over the Baltic Provinces, and 29·8 ins. and less in a shallow system covering the greater part of the North Sea. Latter system subsequently moving westwards to the northern parts of the United Kingdom.

Monday, 20th June.

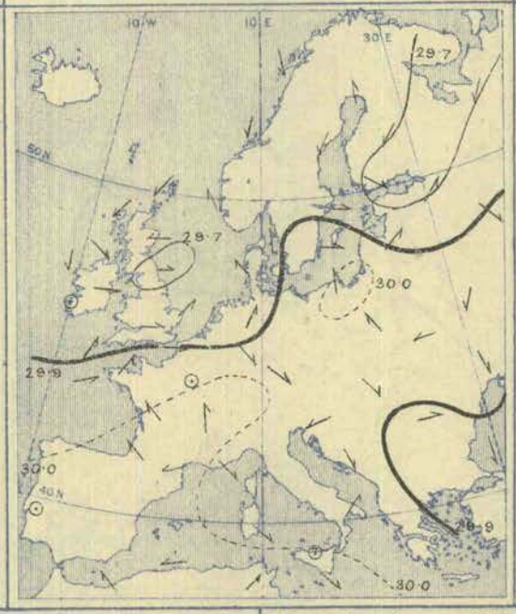
Temperature and Weather. 8 a.m.

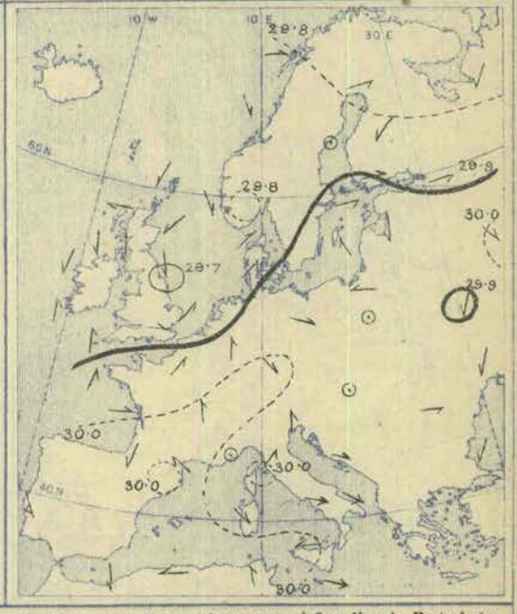


Weather in morning fine and bright over south-eastern, southern, and the greater part of south-western Europe; temporarily fine at several stations over the north-western and northern countries, but changeable generally and showery in other places. Showers later over the greater part of the United Kingdom and France, but amounts of rain slight except at Utrecht, where the fall exceeded three-quarters of an inch; thunderstorms in the north-east of England.

Temperature in morning ranging between 70° and 79° at many of the Mediterranean stations, and exceeding 60° over southern Europe generally; lower elsewhere. Lowest, 46° at Archangel, 47° at Sumburgh Head, Leith, and York, 48° at Bodö, and 50° at Malin Head, Donaghadee, and Shields. Rising to 60° and more over England and some parts of Ireland during the day, and to 70° and more in the west and south of France, to 80° and more over the south of Italy and in Algeria. Succeeding night cold for the time of year over our Islands.

Barometer and Wind. 8 a.m. and 6 p.m.





Wind light and very variable. Northerly over the northern part of Scandinavia, Easterly in Scotland, but Westerly to South-Westerly over England and north of France, and Westerly to North-Westerly over the Baltic and Gulf of Bothnia; very variable indeed over western, central, and eastern Europe. Shifting to South in the west of Ireland later, and cyclonic circulation over Finland breaking up entirely.

Barometer highest, 30·0 ins. and more to 29·9 ins. over south-western, southern, central, and eastern Europe, and exceeding 29·8 ins. in the Hebrides, Shetlands, and the west of Norway. Lowest, 29·7 ins. and less in a depression lying over the north of England and adjacent parts of the North Sea, as well as in another system over the south-east of Finland. Changing little and irregularly over the British Islands and their neighbourhood later, but depression over Finland filling up.

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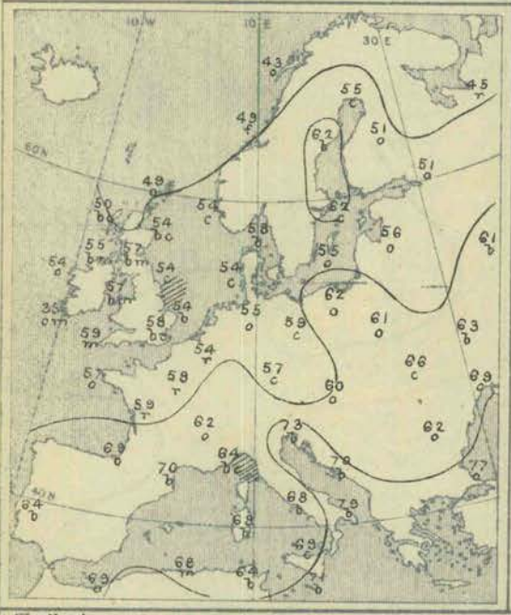
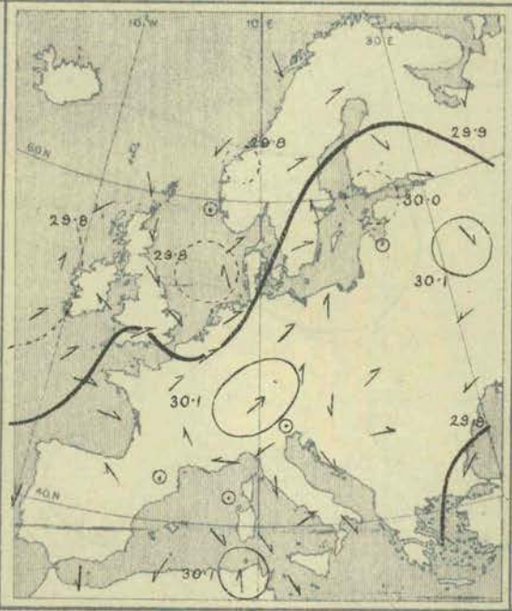
III.—SUMMARY OF WEATHER OVER EUROPE.

Tuesday, 21st June.

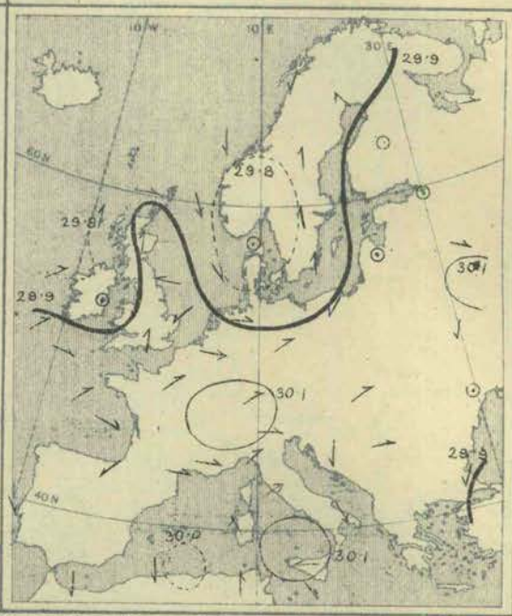
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over the greater part of southern, south-eastern, and eastern Europe, as well as over the greater part of the United Kingdom, but not settled in latter regions; cloudy or overcast in most other places, rainy in Belgium, the north-east of France, and the English Channel, hazy over the northern parts of the Mediterranean. Rain falling later over Ireland, England, Germany, and the north of France—the largest amounts (0·45 in. to 0·3 in.) being recorded at some of the western stations.

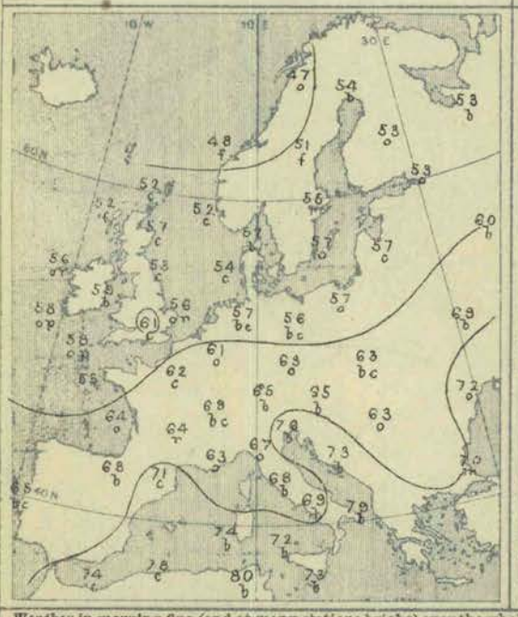
Temperature inclined to rise in most places. Morning readings still exceeding 70° at many of the southern stations and at Constantinople, and exceeding 60° over the southern half of Russia, and southern Europe generally; below 60° over the United Kingdom, and below 50° in the far north. Lowest, 43° at Bödo, 45° at Archangel, 49° at Christiansund and Sumburgh Head. Rising to 70° or a little more in some parts of England later, still higher over France and Spain, and to between 90° and 95° over Algeria; exceeding 60° at many stations as far north as Bodö. Night much milder over England than those experienced of late.

Wind light and extremely variable over the southern, central, and eastern countries; moderate from South-West and South on our western and southern coasts, in the north of France, and over North Germany; Southerly and South-Easterly over the Baltic, but Northerly to North-Westerly along the northern and eastern coasts of Great Britain. Becoming variable over our Islands later, and shifting to North-West on the eastern shores of the North Sea.

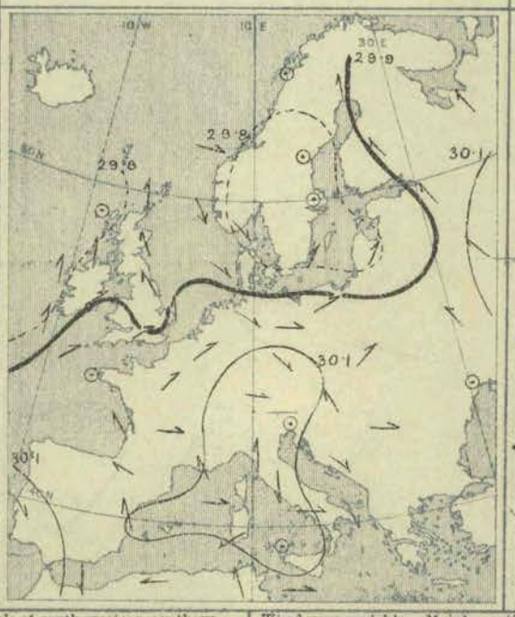
Barometer highest, 30·1 ins. and more to 30·0 ins. in two anticyclones, one over south-western Europe, the Mediterranean, and greater part of France, the other over central Russia. Lowest, 29·8 ins. and less over west of Ireland and adjacent parts of Atlantic, and in other disturbances over the North Sea and Norway. Rising a little over Ireland, England, and France later, falling over Denmark, the south of Sweden, and in Scotland.

Wednesday, 22nd June.

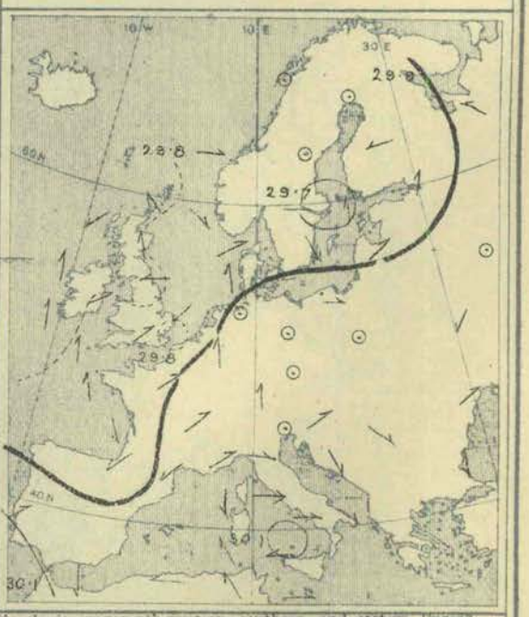
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine (and at many stations bright) over the whole of south-western, southern, south-eastern, and eastern Europe, cloudy and unsettled in the north and north-west, with occasional falls of rain in many places; fog at Stornoway, Christiansund, and Hernösand. Rain falling later over the greater part of the British Isles and north-western Europe, the amounts being very large over the north-west and north of France, the Channel Isles, the southern counties of England, and at Stockholm. Thunder and lightning very prevalent over western Germany and the southern half of France.

Temperature rising rapidly over the southern side of the Mediterranean, little changed elsewhere. Morning readings, highest, 89° at La Calle, and 70° or more at most of the Mediterranean stations. Below 60° over the British Islands, north Germany, and on the shores of the Baltic, and lowest of all, 47° at Bodö, 48° at Christiansund, 51° at Hernösand and Aberdeen. Rising during day to 70° and more over the inland parts of England and in Germany, to nearly 80° in the south of France, to 82° at Belfort, to between 80° and 90° in the south of Italy, and to 100° or more in some parts of Algeria. Succeeding night warm generally.

Wind very variable. Mainly anticyclonic over south-western, southern, and eastern Europe, cyclonic (but moderate in force) elsewhere; chiefly Southerly over the British Islands, North-Westerly on the eastern shores of the North Sea, South-Westerly over the Baltic, South-Easterly over Finland. Backing Southwards on our south-western coasts later, but remaining very light in force; falling light from West over northern Germany.

Barometer highest, 30·1 ins. and more to 30·0 ins. over the southern half of Europe. Lowest, 29·8 ins. and less in a large shallow depression lying over Sweden and the Baltic, and in another off our extreme west and north-west coasts, 29·9 ins. and less over Asia Minor, and 30·0 ins. and less over Algeria. Falling somewhat decidedly, but irregularly, over the British Islands and France later, more especially at our south-western stations, rising slightly in Norway. Scandinavian depression moving eastwards; a new system approaching our south-western coasts.

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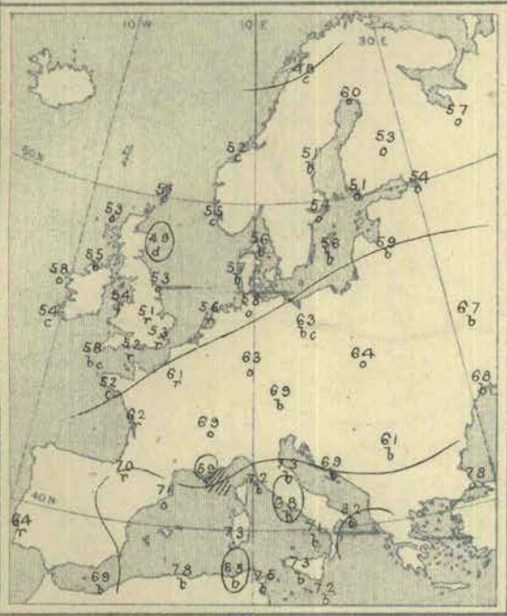
III.—SUMMARY OF WEATHER OVER EUROPE.

Thursday, 23rd June.

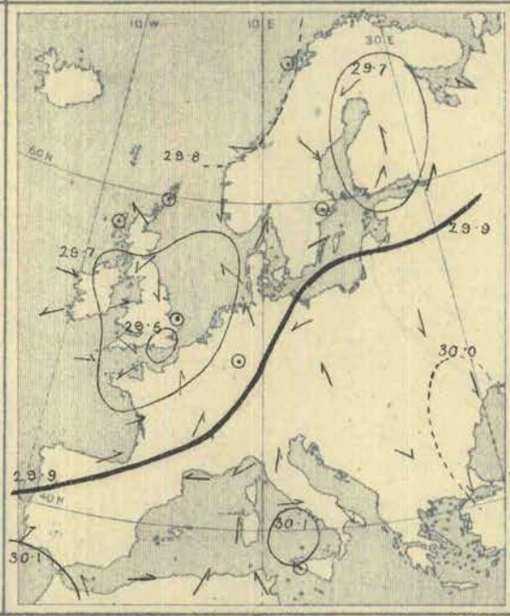
Temperature and Weather.

8 a.m.

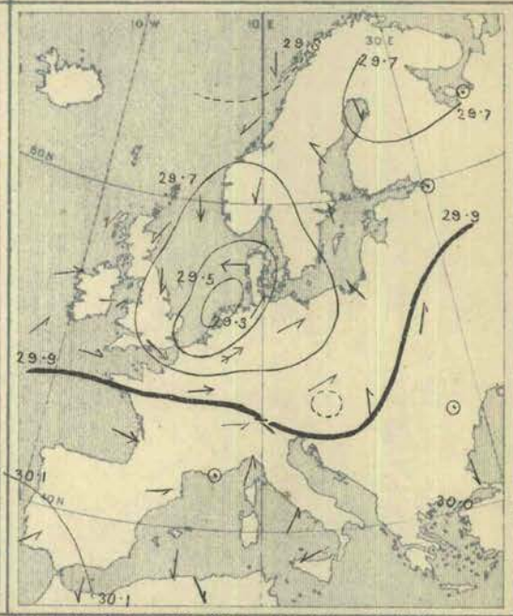


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over south-eastern Europe and the southern shores of the Mediterranean, unsettled over northern and western Europe and the British Isles, with continuous rain in many parts of France and England, and in some parts of Finland. Rainfall heavy during day in the south-east of England, the Netherlands, the north-east of France, slighter over Germany; very slight and local in the west and north of our Islands, thunder showers over the southern departments. Thunder reported at Loughborough and also at Berlin.

Temperature changing fitfully—fallen in the rainy localities. Morning readings, 85° at La Calle, 82° at Brindisi, and ranging between 70° and 80° at nearly all the Mediterranean stations; 78° at Constantinople, 71° at Nicolaieff. Below 60° over north-western and northern Europe generally, and as low as 48° at Bodö, 49° at Aberdeen and Oxford, 50° at Cambridge, Spurn Head and Helsingfors. Not reaching 65° in any part of our Islands during day, but exceeding 76° in the south of France, 80° in the south of Italy, and 100° over many parts of Algeria.

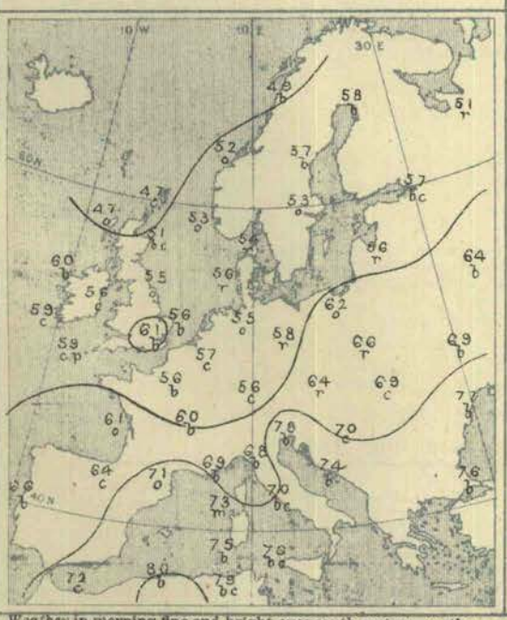
Wind very variable—mainly Westerly to Southerly at the Continental stations, South-Easterly on the eastern shores of the North Sea. Very light and variable from the North-Westward in the north of England, calm in Ireland and Scotland. The North-Westerly wind spreading to our south-eastern counties and Holland later, and freshening; while South-Easterly breezes set in over the southern parts of Sweden. The North-Westerly breeze blowing strongly at the Helder at 6 p.m., while a South-Westerly gale prevailed in Münster, and a strong Easterly breeze over Holstein.

Barometer highest, 30·1 ins. to 30·0 ins. over the Mediterranean and nearly the whole of south-eastern and eastern Europe. Lowest, 29·7 ins. and less in a low pressure area over Finland, and 29·5 ins. and less in another over Sussex and the eastern part of the English Channel. Latter disturbance growing much deeper during day and moving north-eastwards towards the coast of Holstein. Barometer consequently rising quickly over England and the north-east of France, falling over Scandinavia and the Baltic.

Friday, 24th June.

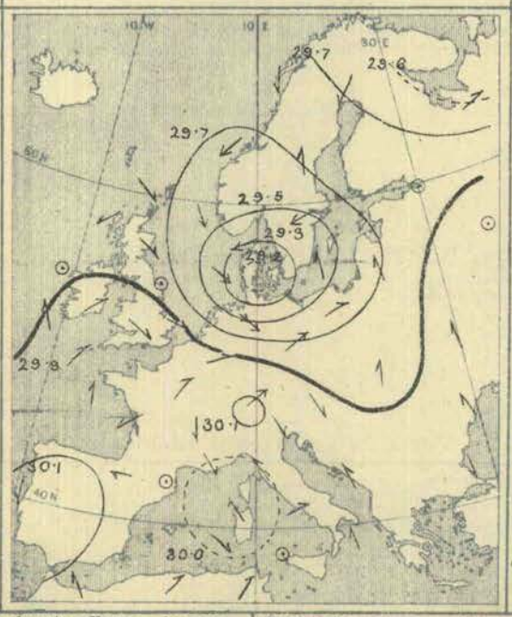
Temperature and Weather.

8 a.m.

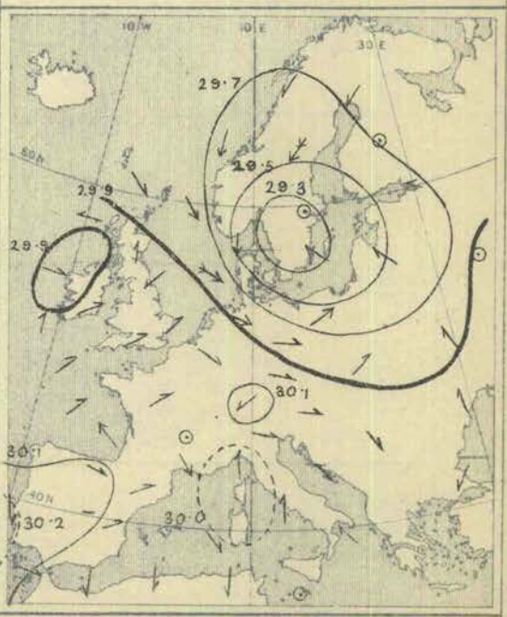


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over south-eastern, southern, and western Europe, also over Ireland, England, and the northern parts of Scandinavia; cloudy over Scotland, and very unsettled over the Netherlands, Denmark, the Baltic, and southern parts of Scandinavia, with heavy rain in many places. Rainfall during day exceeding 0·5 in. over the Skager Rack, and heavy fall both over the Gulf of Bothnia and south of France; a smaller quantity in the west of Ireland. Weather fine over England as a whole, but appearance unsettled and thunder heard at Spurn Head.

Temperature fallen several degrees over France and Germany. Morning readings exceeding 70° at the Mediterranean stations and over south-eastern Europe, and exceeding 60° over Germany, the greater part of Russia, and the south-east of England; lower elsewhere, and lowest of all, 47° at Sumburgh Head, and 49° at Stornoway, Nairn, Wick and Bodö. Rising later to between 70° and 72° over many parts of England, exceeding 75° in the west and south of France, exceeding 80° in southern Italy, and touching 90° at some stations; exceeding 110° at Biskra (Algeria).

Wind light and very variable over Spain, France, and the British Isles, also over northern Europe, central and southern Russia. A well-defined cyclonic circulation prevalent over the eastern shores of the North Sea, the Baltic Provinces, and Germany—the North-Westerly and Westerly winds blowing a gale over the Netherlands, while strong Southerly winds prevailed in Germany, and Easterly winds in the southern half of Sweden. Veering Southwards in Sweden later, but strong North-North-Westerly winds spreading over Denmark, and South-Westerly gales over the Baltic Provinces.

Barometer highest, 30·0 ins. and more over nearly the whole of France and southern Europe. Lowest, 29·6 ins. and less over northern Russia, and 29·2 ins. and less in a deep depression over Denmark and the Sound. Latter disturbance moving north-eastwards to Sweden later, and barometer rising over North Sea, falling over northern Russia, steady in our Islands.

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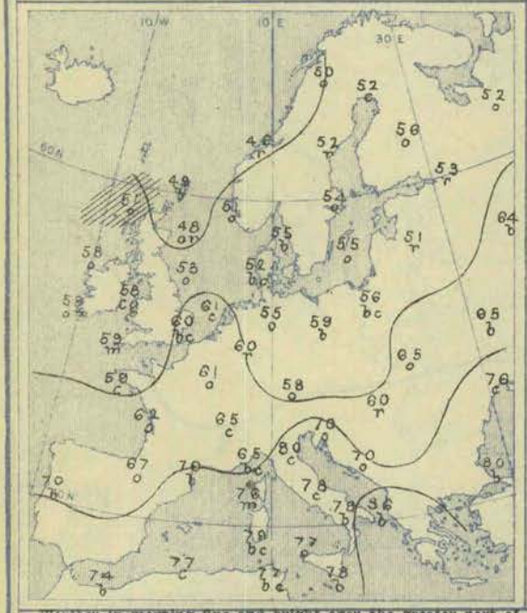
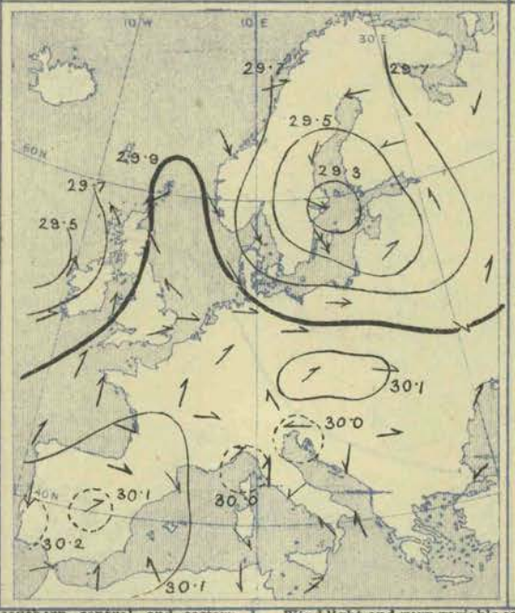
III.—SUMMARY OF WEATHER OVER EUROPE.

Saturday, 25th June.

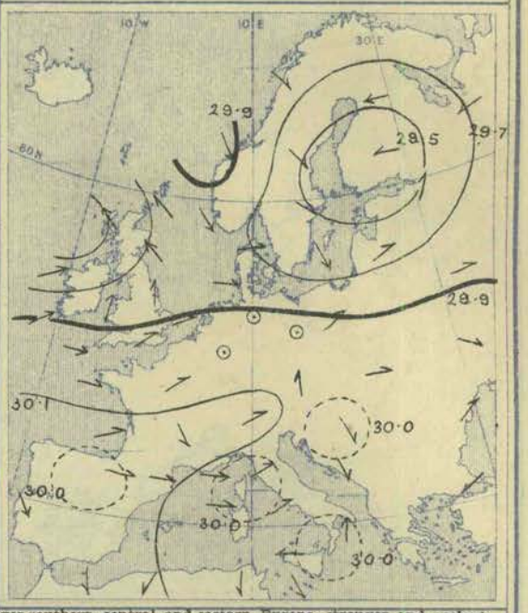
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the greater part of southern, central, and eastern Europe, as well as over the eastern and south-eastern counties of England; cloudy or overcast, and unsettled, elsewhere; rainy over the Baltic, Gulfs of Bothnia, and Finland, as well as in some of the western parts of our Islands. Rain generally later over the United Kingdom and many parts of France, Germany, and Austria, as well as over Lapland, Finland, and the extreme north of Russia, and on the shores of the Black Sea; amounts largest at Clermont and at Vienna.

Temperature in morning, 86° at Brindisi, 80° at Constantinople, 77° at Tunis, Algiers, and Oran, and exceeding 70° at the Mediterranean and Black Sea stations generally; below 60° over the United Kingdom, north-western and northern Europe, and as low as 46° at Archangel and Christiansund, 48° at Aberdeen, and 49° at Sumburgh Head. Rising later to between 100° and 110° Fahr. over central Algeria, to between 86° and 91° over the south of Italy, to between 70° and 80° over France, and to between 65° and 70° in many parts of our Islands.

Wind light and very variable over southern, central, and eastern Europe, stronger and cyclonic in North-West and North. A complete cyclonic circulation prevalent over northern Europe (Westerly gales at Memel and Wisby), and the moderate to fresh Southerly to South-Easterly winds of another (Atlantic) system prevailing over Ireland, the Irish Sea, and Scotland. Gales in Baltic moderating later, but wind in our Islands freshening and veering South-Westwards at our south-western stations.

Barometer highest, 30·1 ins. and more to 30·0 ins. over Spain, France, Germany, and south-eastern Europe. Lowest, 29·3 ins. and less in a large well-marked depression over the Baltic (centre near Stockholm); and 29·6 ins. and less in another off the north-west of Ireland. Latter system advancing north-eastwards later, towards Scotland; that over the Baltic advancing over Finland and beginning to fill up. Fresh shallow disturbances appearing over the Mediterranean, Italy, and Austria.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟹ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

The weather of this week was of a rather unsettled character generally, but especially during the latter part of the time, when depressions of considerable importance passed by our extreme north-western coasts from the Atlantic, and a rather deep secondary system moved north-eastwards over Brittany, the Channel, and south-eastern parts of England, bringing heavy rain and thunderstorms to our southern and eastern stations and the north of France. Temperature was low and very unsteady over north-western Europe, but no very high readings were recorded.

BRIGHT SUNSHINE Values for the Week in addition to those found on page 146.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	32·5	?	27	?	EASTBOURNE	46·2	?	41 *	?
OSWALDKIRK (Yorkshire)	28·4	?	24	?	TENBY	53·6 *	?	47 *	?
WORKSOP	29·7	− 5·5	25	− 5	NEWQUAY	37·0	?	33	?
THURCASTON (Leicestershire)	39·4	+ 3·2	34	+ 2	TORQUAY	40·2 *	?	36 *	?
MARGATE	38·8	?	34	?	ARLEY COTTAGE (County Cavan)	29.9	?	25	?
WESTBOURNE (Sussex)	39·5 *	?	35 *	?	GUERNSEY	50·3 *	?	45 *	?
BRIGHTON	37·6	?	33	?					

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.
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VOL. IX. No. 26.] *Third Series.* WEEK ENDING SATURDAY, 2ND JULY, 1892. [*Price 6a.* [*Annual subscription post paid, £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years' observations (1871–90). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the ten years 1881-90. RAINFALL.—*The Mean amounts* are those for the corresponding periods in the twenty-five years 1866–90, but the *Mean numbers of Rainy Days* are those for the ten years 1881-90, only. BRIGHT SUNSHINE.—*The Mean values* employed are those for the corresponding periods in the ten years 1881–90.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 152.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1892. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	67	36	59·3	46·2	52·3	2 below.	72	+ 2	0	0	653	0	754	+212
	1. SCOTLAND, EAST	70	37	64·3	47·3	55·2	1 below.	92	0	0	0	808	−74	810	+241
	2. ENGLAND, N.E.	76	45	66·4	51·9	58·6	1 above.	116	+15	0	0	887	0	684	+186
	3. ENGLAND, EAST	81	38	71·2	51·1	60·5	1 above.	130	+16	0	0	1072	−11	771	+210
	4. MIDLAND COUNTIES	79	37	69·1	50·7	59·3	0 (average)	121	+ 9	0	0	1139	+32	802	+246
	5. ENGLAND, SOUTH	83	40	70·0	52·4	60·6	1 above.	130	+10	0	0	1161	−32	554	+138
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	67	41	61·0	49·5	54·9	2 below.	90	− 4	0	0	880	−33	610	+193
	7. ENGLAND, N.W.	74	42	63·9	51·7	57·4	0 (average)	108	+ 5	0	0	956	−13	579	+165
	8. ENGLAND, S.W.	77	38	65·6	52·2	58·5	0 (average)	116	+ 6	0	0	1127	0	433	+117
	9. IRELAND, NORTH	74	40	63·3	50·8	56·8	0 (average)	104	+ 8	0	0	985	−32	484	+122
	10. IRELAND, SOUTH	77	42	65·6	51·6	58·1	0 average)	113	+ 6	0	0	1172	−16	410	+132
	— CHANNEL ISLANDS	83	51	68·1	55·5	61·4	2 above.	136	+21	0	0	1276	+28	164	+ 42

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 152.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1892. Number of Rainy Days.	Difference from Mean.	Total Fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1892. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of In.	10ths of In.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	10	2 more.	122	+ 4	20·4	− 1·6	39	+10	32	+10	702	+ 38	30	+ 1
	1. SCOTLAND, EAST	3	3	3 less.	97	+ 3	11·8	− 2·1	48	+17	40	+13	803	+ 49	34	+ 1
	2. ENGLAND, N.E.	3	10	5 more.	98	+10	11·6	+ 0·3	33	− 1	28	0	772	+104	33	+ 4
	3. ENGLAND, EAST	2	10	4 more.	91	+ 5	10·0	− 1·3	57	+11	49	+ 9	880	+ 76	38	+ 3
	4. MIDLAND COUNTIES	2	8	3 more.	82	− 3	9·7	− 3·1	45	+ 4	39	+ 5	849	+139	37	+ 6
	5. ENGLAND, SOUTH	1	2	2 less.	69	−14	7·4	− 5·0	64	+19	56	+17	955	+192	42	+ 9
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	4	9	2 more.	96	− 5	18·1	− 4·5	40	− 2	34	− 2	820	+ 88	35	+ 3
	7. ENGLAND, N.W.	5	13	6 more.	96	+ 4	14·7	+ 0·3	35	− 6	30	− 5	850	+128	37	+ 6
	8. ENGLAND S.W.	2	3	3 less.	81	−10	10·9	− 6·9	37	−15	33	−12	970	+122	42	+ 5
	9. IRELAND, NORTH	4	10	3 more.	102	− 5	15·8	− 0·4	43	+ 9	36	+ 8	767	+ 66	33	+ 2
	10. IRELAND, SOUTH	4	10	4 more.	91	− 9	15·5	− 2·7	40	0	34	+ 1	846	+ 48	37	+ 2
	— CHANNEL ISLANDS	2	1	4 less.	89	−13	12·0	− 2·5	70	+17	62	+15	1092	+114	47	+ 4

Bright Sunshine.—For several of the stations there are no "mean" values available, and the "difference from the mean" in some of the districts is consequently that of only a few of the stations.

General Remarks.

Weather during this week was very changeable. At first it was fair except in the extreme west and north, but late on Tuesday a severe thunderstorm was experienced in many parts of England, and the rainfall accompanying it was very heavy in the north-east and north-west. Fair conditions subsequently prevailed over the greater part of England, but in Ireland and Scotland the weather became unsettled and rainy, especially on Saturday.

Temperature did not differ materially from the mean over England and Ireland, but was a little below it in Scotland. The highest of the maxima were recorded on the 27th, and ranged from 83° in England S. and the Channel Islands, and from 81° in England E., to 70° in Scotland E., and 67° in Scotland N. and W. The lowest of the minima, which occurred on the 29th at the Scotch stations, and on the following day elsewhere, varied from 36° in Scotland N., 37° in Scotland E. and the Midland Counties, and 38° in England E. and S.W., to 45° in England N.E., and 51° in the Channel Islands. After the thunderstorm on Tuesday evening, the fall of temperature over England was very rapid.

Rainfall differed very considerably in the various parts of the Kingdom. In most of the English districts, in Scotland N. and W., and over Ireland, it exceeded the mean, but in England S. and S.W., the Channel Islands, and Scotland E., it was less than the normal. At some of the northern English stations the amounts measured on the morning of the 29th ranged from 1·5 ins. to 2·0 ins.

Bright Sunshine exceeded the normal in most places, but showed a deficit in the north-western and south-western districts. The percentage of the possible duration ranged from 30 in England N.W., and 32 in Scotland N., to 49 in England E., 56 in England S., and to 62 in the Channel Islands.

Barometer and Wind.—During the early part of the week the barometer was highest in the south, and depressions of no great depth were passing north-eastwards outside our extreme north-western coasts. The wind was consequently South-Westerly in direction, moderate to fresh in force. By the 29th, however, a depression had advanced from the south-westward to the south-east of England, and the wind had shifted to the Eastward or Northward very generally, but as the system passed away over the North Sea the barometer rose decidedly and again became highest in the south, while further depressions appeared in the north-west, and the winds over our Islands returned to the South-Westward.

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II.—DATA from which the SUMMARY on page 151 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	58	43	56·4	45·7	50·7	− 0·4	61	0	4	0·27	−0·21	*	*	*	*
	Stornoway	63	36	58·6	46·6	52·2	− 1·3	71	0	4	0·35	−0·35	49·2	+10·5	40	+10
	Wick	64	39	60·7	45·1	52·4	− 1·3	73	0	3	0·29	− 0·16	*	*	*	*
	Lairg S	67	36	60·9	43·7	51·7	− 2·6	68	0	5	0·63	+0·04	*	*	*	*
	Glencarron S	64	40	57·9	46·3	51·7	− 1·8	68	0	4	2·25	+0·97	*	*	*	*
	Fort Augustus S	63	41	61·2	47·4	53·8	− 1·9	83	0	4	0·60	−0·01	34·0	?	28	?
	Fort William S	65	43	59·4	48·4	53·5	− 2·7	81	0	5	2·39	+ 1·35	33·2	?	27	?
1. SCOTLAND, E.	Nairn	68	40	64·7	47·3	55·4	− 1·3	94	0	1	0·11	−0·36	*	*	*	*
	Aberdeen	68	45	63·9	48·3	55·6	− 0·2	95	0	3	0·47	−0·01	58·7	+16·2	48	+13
	Braemar S	66	37	61·4	43·4	51·8	− 2·0	69	0	3	0·35	−0·25	40·3†	?†	33†	?†
	Ochtertyre S	69	43	65·4	46·9	55·5	− 0·8	95	0	3	0·39	−0·29	*	*	*	*
	Leith	70	47	66·0	50·3	57·6	+ 0·2	109	0	2	0·11	−0·42	*	*	*	*
	Marchmont S	67	43	64·3	47·7	55·4	− 0·3	94	0	4	0·32	−0·36	48·0	?	40	?
2. ENGLAND, N.E.	Alnwick Castle	69	47	64·0	51·9	57·5	+ 1·8	109	0	2	0·03	−0·48	*	*	*	*
	Durham	70	45	67·7	50·2	58·3	+ 0·7	114	0	3	0·73	+0·20	44·1	+ 7·9	37	+ 6
	Shields	76	48	67·3	52·3	59·3	+ 2·6	121	0	3	0·40	−0·07	*	*	*	*
	Scarborough fft	75	45	67·7	50·9	58·7	+ 1·0	117	0	2	1·20	+0·69	*	*	*	*
	York	75	45	67·1	53·1	59·6	+ 0·9	123	0	2	1·90	+1·37	? 30·5	−27·5	?26	−?5
	Spurn Head	72	48	64·6	53·0	58·4	+ 0·3	115	0	3	1·39	+1·04	*	*	*	*
3. ENGLAND, E.	Hillington fft	79	38	71·3	49·4	59·6	+ 0·5	123	0	2	0·81	+0·23	51·6	+ 8·9	44	+ 5
	Yarmouth	80	44	68·3	53·9	60·6	+ 1·8	130	0	3	1·27	+0·75	*	*	*	*
	Geldeston	80	41	71·6	50·7	60·4	+ 1·3	129	0	3	1·11	+0·65	59·8	+12·8	52	+10
	Cambridge	81	40	73·4	51·3	61·6	+ 1·4	137	0	1	0·38	+0·33	59·6	+16·7	52	+14
	Rothamsted	77	39	71·5	50·4	60·2	+ 1·1	127	0	1	0·70	+0·11	56·3	?	49	?
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	76	42	69·4	50·9	59·5	+ 0·1	123	0	3	1·27	+0·69	*	*	*	*
	Loughborough	77	37	70·3	51·0	60·0	− 0·5	126	0	2	1·21	+0·69	*	*	*	*
	Stamford (Ketton Hall)	79	37	71·3	50·0	59·9	− 0·3	125	0	1	0·06	−0·47	*	*	*	*
	Cheadle fft	72	44	65·1	49·3	56·8	0·0	104	0	2	2·32	+1·64	*	*	*	*
	Churchstoke fft	75	39	66·0	49·7	57·3	+ 0·2	107	0	3	0·74	+0·18	36·3	− 3·8	31	− 4
	Hereford fft	75	41	70·1	51·9	60·4	+ 1·1	129	0	2	0·71	+0·20	*	*	*	*
	Cirencester	75	39	69·9	50·3	59·4	+ 1·2	122	0	1	0·35	−0·24	53·6	+12·3	47	+10
	Oxford	77	40	70·9	51·4	61·0	+ 1·4	133	0	1	0·09	−0·45	55·9	+13·5	49	+12
5. ENGLAND, S.	London	78	47	72·7	53·7	62·5	+ 1·2	144	0	1	0·81	+0·28	55·9†	+17·6†	49†	+14†
	North Foreland	77	46	69·4	54·0	61·2	+ 2·8	134	0	1	0·78	?	*	*	*	*
	Strathfield Turgiss fft	78	40	74·0	51·0	61·7	+ 1·4	138	0	1	0·01	−0·49	*	*	*	*
	Dungeness	83	44	67·9	51·6	59·2	− 0·5	120	0	1	0·18	−0·20	*	*	*	*
	Hastings (St. Leonards)	77	46	67·1	51·4	58·7	− 1·1	117	0	1	0·05	−0·36	68·5	+19·5	60	+17
	Southampton	78	46	72·8	52·6	62·0	+ 1·5	140	0	1	0·02	−0·42	67·7	+21·6	59	+17
	Hurst Castle	73	48	66·9	53·6	59·5	+ 0·1	125	0	0	—	−0·49	*	*	*	*
	Stowell fft	75	44	69·4	51·2	59·7	+ 0·6	124	0	1	0·01	?	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	62	41	59·9	47·5	53·3	− 2·6	79	0	4	1·69	+0·47	*	*	*	*
	Glasgow	67	46	62·8	49·7	55·8	− 0·7	97	0	4	0·62	−0·09	42·8	+ 7·5	36	+ 6
	Ardrossan	64	49	60·3	51·6	55·7	− 1·5	96	0	2	0·51	−0·09	*	*	*	*
	Glenlee S												*	*	*	*
	Douglas (Isle of Man)	64	42	60·9	49·2	54·6	− 1·8	88	0	5	0·86	+0·29	37·4	−10·9	32	−10
7. ENGLAND, N.W.	Newton Reigny	65	42	63·5	49·0	55·8	− 0·7	97	0	5	0·53	−0·06	38·1	− 3·9	32	− 2
	Stonyhurst	69	44	63·7	51·5	57·2	− 0·3	106	0	6	1·53	+0·64	27·4	−12·9	23	−12
	Blackpool fft	68	50	64·1	53·3	58·3	+ 0·3	114	0	5	1·10	+0·55	31·7	−10·0	27	− 8
	Manchester	74	42	65·6	50·8	57·7	0·0	110	0	3	1·49	+0·74	*	*	*	*
	Liverpool Obsy. (Bidston)	72	49	65·6	54·0	59·4	+ 0·4	122	0	4	2·07	+1·52	*	*	*	*
	Llandudno fft												42·1	+ 3·0	36	+ 2
	Holyhead	65	50	60·7	52·0	56·1	− 1·6	99	0	5	0·83	+0·35	*	*	*	*
8. ENGLAND, S.W.	Llandovery	72	38	67·6	50·7	58·6	− 0·1	116	0	3	0·61	−0·14	*	*	*	*
	Pembroke	62	50	59·7	52·9	56·1	− 1·1	99	0	4	0·87	+0·39	17·9	−33·2	16	−29
	Arlington (N. Devon)	69	46	66·9	51·7	58·8	+ 1·6	118	0	2	0·30	−0·60	*	*	*	*
	Cullompton fft	77	45	71·6	51·6	60·9	+ 1·9	132	0	0	—	−0·60	41·8	− 1·0	37	− 1
	Falmouth	68	49	65·9	53·5	59·3	+ 0·5	121	0	2	0·04	−0·61	40·0	−11·6	35	−10
	Plymouth	65	47	63·5	52·5	57·6	− 2·7	109	0	2	0·03	−0·49	34·1	−11·4	30	−11
	Prawle Point	68	49	63·3	52·6	58·0	+ 0·5	112	0	2	0·07	−0·35	*	*	*	*
9. IRELAND, N.	Malin Head	63	49	60·4	51·4	55·6	− 0·6	95	0	4	1·52	?	*	*	*	*
	Londonderry	?	44	?	49·7	?	?	?	?	4	1·24	+0·57	*	*	*	*
	Mullaghmore	66	49	62·3	51·9	56·7	− 0·6	103	0	5	1·36	+0·63	*	*	*	*
	Belmullet	63	45	61·6	52·0	56·5	+ 0·1	102	0	3	1·03	?	*	*	*	*
	Markree Castle	67	40	64·7	48·7	56·1	+ 0·1	99	0	4	0·81	+0·01	44·1	+11·1	37	+ 9
	Brookeborough	68	43	64·2	47·3	56·5	0·0	100	0	3	1·16	+0·46	*	*	*	*
	Armagh	70	43	65·7	49·3	56·9	− 0·1	104	0	3	0·89	+0·32	46·0	+ 9·6	39	+ 8
	Donaghadee	74	52	64·6	54·7	59·8	+ 3·3	135	0	4	0·74	+0·23	*	*	*	*
	Edgeworthstown	?	43	?	49·1	?	?	?	?	3	0·34	−0·40	*	*	*	*
10. IRELAND, S.	Dublin	77	49	68·6	53·5	60·7	+ 1·7	131	0	4	0·32	−0·14	42·0	+ 2·7	36	+ 3
	Parsonstown	73	45	67·4	50·3	58·3	+ 0·8	114	0	3	0·87	+0·27	36·3	− 1·3	31	− 2
	Kilkenny	73	42	67·0	50·0	57·9	− 0·1	111	0	4	0·69	+0·17	*	*	*	*
	Waterford	70	47	66·1	51·4	58·2	− 0·5	113	0	5	0·99	+0·39	*	*	*	*
	Roche's Point	65	50	62·6	53·0	57·5	− 1·2	109	0	4	0·71	−0·01	*	*	*	*
	Valencia	65	45	63·0	52·0	57·1	− 0·6	106	0	3	1·84	+1·02	41·3	− 0·2	36	0
	Killarney	68	43	65·3	50·3	57·3	0·0	107	0	2	0·72	?	*	*	*	*
	Foynes	70	46	64·7	52·1	58·0	+ 0·3	112	0	4	1·79	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	68	54	65·3	56·0	60·3	+ 1·6	128	0	3	0·21	−0·28	*	*	*	*
	Jersey	83	51	70·9	55·0	62·4	+ 2·0	113	0	1	0·01	−0·48	70·3	+17·7	63	+15

Stations marked fft are in connection with the Royal Meteorological Society, and those marked S with the Scottish Meteorological Society.

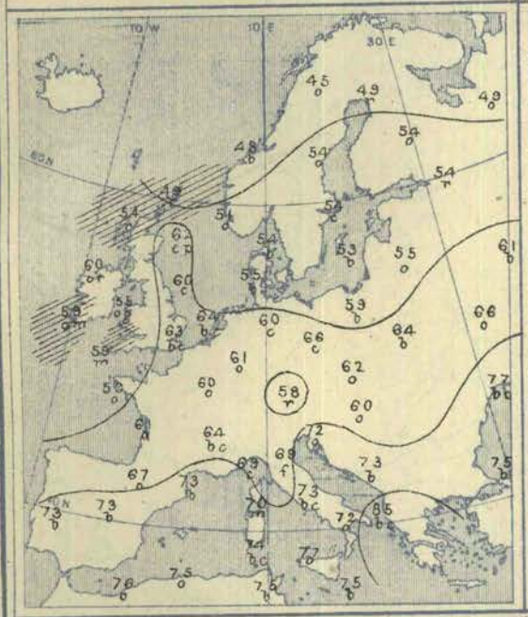
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory and the Meteorological Office, Victoria Street. For additional Reports of Sunshine see last page.

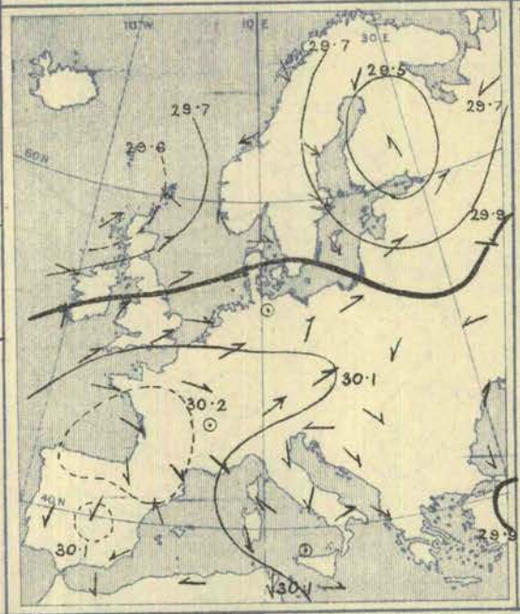
III.—SUMMARY OF WEATHER OVER EUROPE.

Sunday, 26th June.

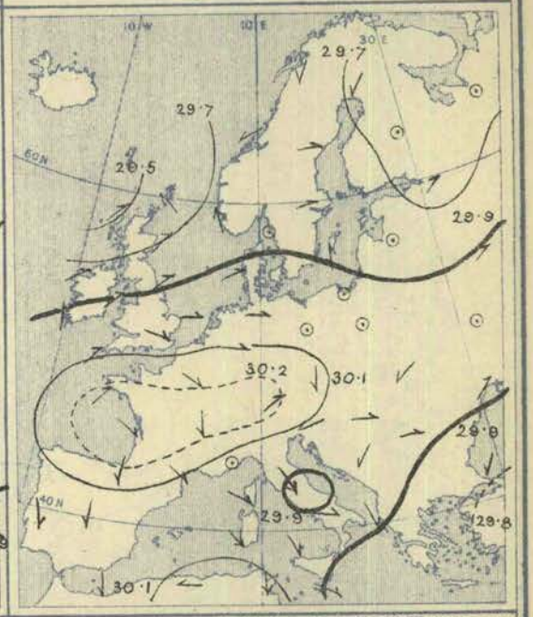
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over south-western, southern, and south-eastern Europe generally, also over the south-eastern counties of England and on the eastern shores of the North Sea. Cloudy or overcast elsewhere, showery over the western and northern parts of the United Kingdom, as well as in the north of Finland and in some parts of Germany. Fog setting in later over the English Channel; no important change occurring elsewhere.

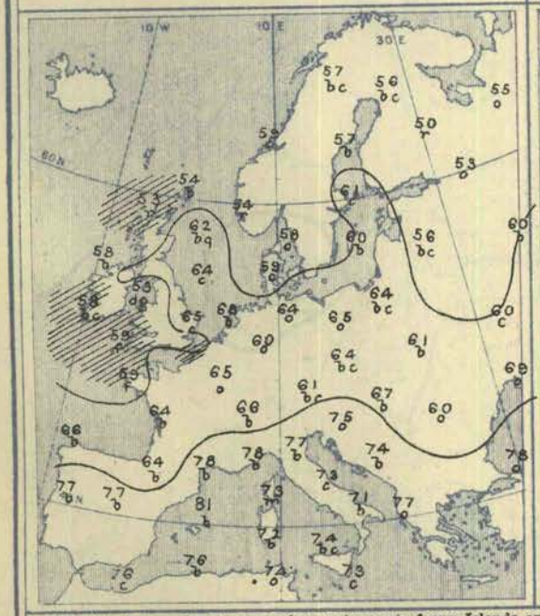
Temperature increasing over England. Morning readings 85° at Brindisi, and exceeding 70° over Spain, the Mediterranean, and south-eastern Europe. Exceeding 60° over the greater part of central Europe, England, and Ireland, and at Aberdeen; much lower in the north. Lowest, 45° at Bodö, 48° at Christiansund, 49° at Archangel, Haparanda, and Sumburgh Head. Rising later to 70° and more over Germany, to 75° and more in many parts of England, to 80° and more in Spain, Italy, and the south of France, and to 91° at Lisbon. Succeeding night warm.

Wind light and very variable over south-eastern Europe: light Westerly to North-Westerly over the Bay of Biscay, chiefly North-Westerly to Northerly over the Mediterranean; moderate Westerly and South-Westerly over England, fresh South-Westerly to Southerly in Ireland and Scotland, South-Easterly at Sumburgh Head, Easterly in the west of Norway. A complete cyclonic circulation of moderate winds prevalent over northern Europe. No important change occurring during day.

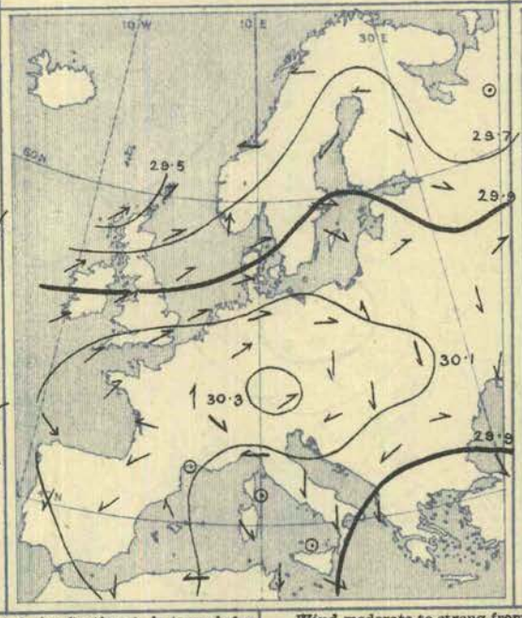
Barometer highest, 30·2 ins. and more to 30·6 ins. in an anticyclone covering the Bay of Biscay, Spain, France, and south Germany. Lowest, 29·5 ins. and less in a depression over Finland, 29·6 ins. and less in another off our north-west coasts, and 30·0 ins. and less in a third over Corsica and the northern half of Italy. The system off our north-west coasts moving northwards later, and barometer rising over western Europe generally. Depression over Finland gradually filling up.

Monday, 27th June.

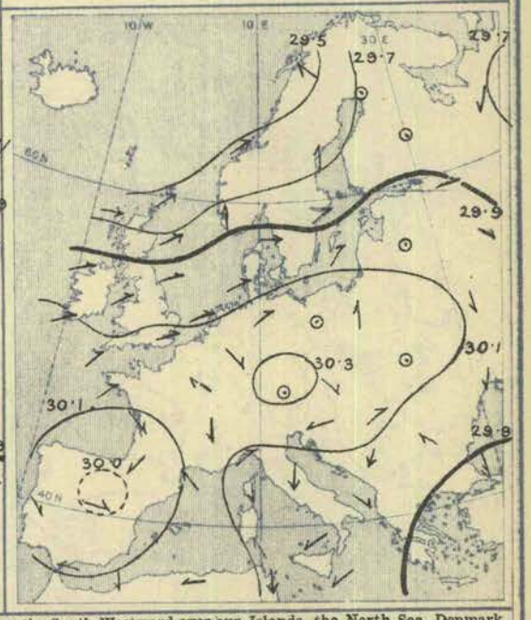
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over the greater part of our Islands and the Continent, but much fog prevailing over the English Channel. Dull over northern Russia and the south of Norway, with rain at Kuopio and Skudesnaes, as well as in the Hebrides. Rain falling during day in some of the more central parts of the United Kingdom, as well as in the extreme north, but amounts mostly small. No important change occurring elsewhere.

Temperature in morning, highest, 81° at Barcelona, and 78° at Nice, Toulon, Perpignan, and Constantinople, above 70° over southern Europe and the Mediterranean generally, and very nearly that point over the eastern and central parts of England. Lowest, (1) 50° at Kuopio, 52° at Uleaborg, and 53° at St. Petersburg; (2) 53° at Stornoway, 54° at Sumburgh Head, and 56° at Ardrossan and Malin Head; (3) 58° at Holyhead, and 56° at Pembroke and Prawle Point. Rising during day to between 75° and 80° over the central and south-eastern parts of England generally, and reaching 81° at Cambridge; exceeding 85° in the south of France, as well as in many parts of Spain and Italy, the highest reading of all being 100° at Madrid.

Wind moderate to strong from the South-Westward over our Islands, the North Sea, Denmark, the Netherlands, and north Germany, but Easterly or North-Easterly over the northern parts of Scandinavia and Finland. Light from the Westward over the Baltic and central Russia, as well as in Austria, Italy, Algeria, and the greater part of Spain; light from the Eastward or South-Eastward in the west of France. Subsequently veering to the Westward in most parts of our Islands, and increasing to a gale in the extreme north; shifting to the North-Westward in the west of France.

Barometer highest, 30·1 ins. to 30·3 ins. in a large anticyclone covering Spain, France, Switzerland, Germany, the Netherlands, and the south of England. Lowest, 29·5 ins. and less in a depression lying off the north of Scotland. Anticyclone subsequently travelling away slowly eastwards across central Europe; depression in north travelling away in a north-easterly direction, but shallow disturbance appearing over central Spain in evening.

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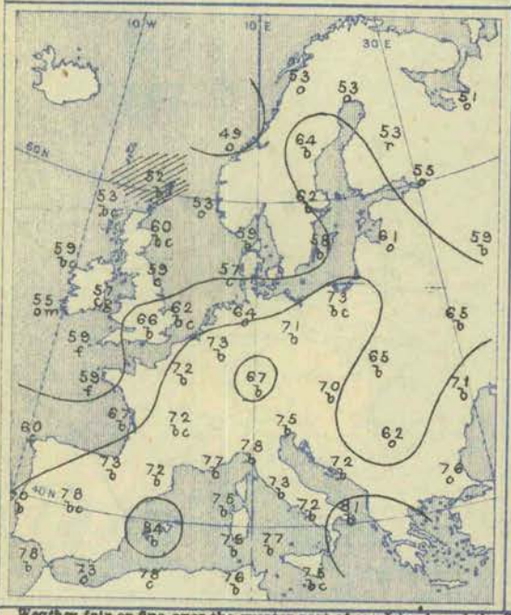
III.—SUMMARY OF WEATHER OVER EUROPE.

Tuesday, 28th June.

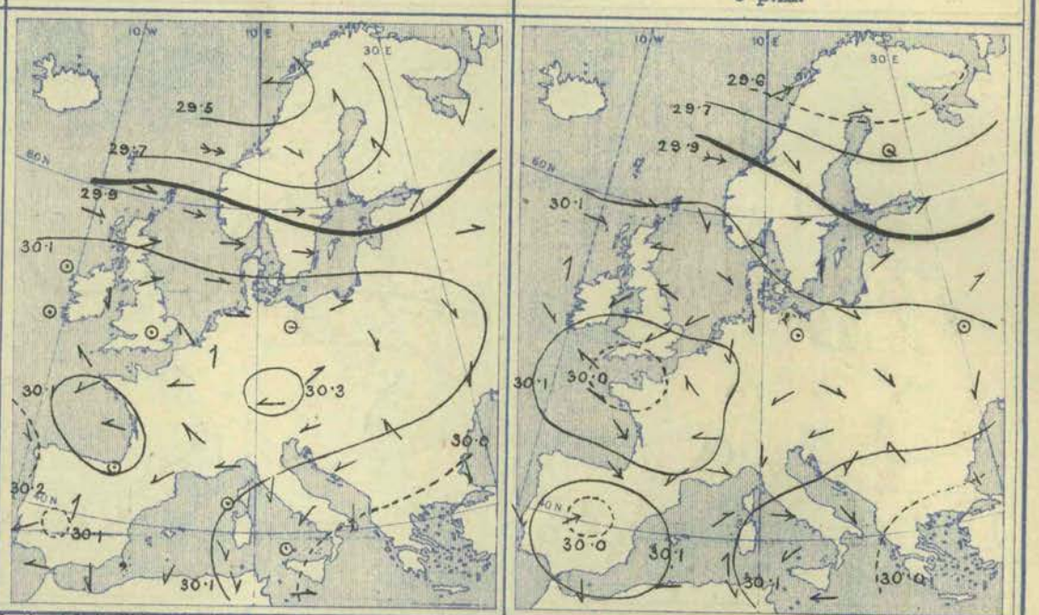
Temperature and Weather. 8 a.m.



Weather fair or fine over the greater part of our Islands and the Continent, but still foggy in the English Channel. Dull over the northern parts of Scandinavia and Russia, with rain at Kuopio. Rain falling later in the west of the United Kingdom. Severe thunderstorms with heavy rain occurring in evening or night in many parts of England and France, the largest amounts measured next morning being 1·6 ins. at York and Liverpool, 1·2 ins. at Spurn Head and Loughborough, and from 0·8 in. to 0·9 in. at our south-eastern stations generally.

Temperature highest, 84° at Palma, 81° at Brindisi, and 78° at Madrid and Algiers, above 75° at several of the Mediterranean and Adriatic stations, above 70° in some parts of Germany, and above 65° in the south-east of England. Below 55° in the northern parts of Scandinavia and Russia, as well as in the extreme north of our Islands, the lowest readings of all being 49° at Christiansund, 51° at Archangel, and 52° at Sumburgh Head. Rising during day to 78° in London, and to 83° at Jersey and Dungeness, but remaining below 65° at most of our western stations; exceeding 85° in France, Spain and Italy, and reaching 101° at Madrid.

Barometer and Wind. 8 a.m. and 6 p.m.

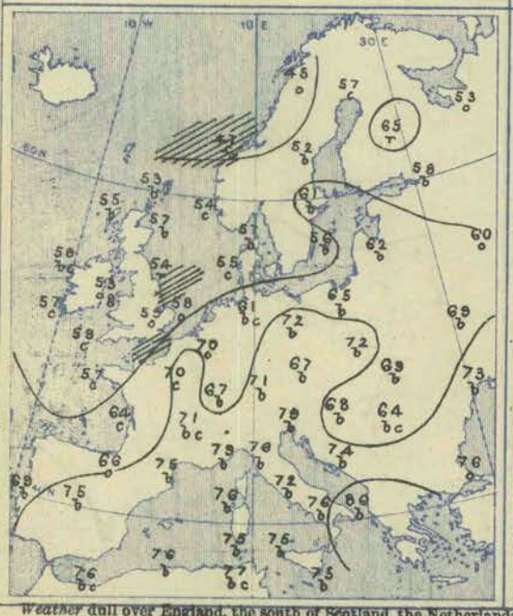


Wind light or moderate from the Westward over the northern parts of the United Kingdom, as well as over North Germany, strong from the same quarter over the central and southern parts of Scandinavia with a gale at Christiansund; Easterly or South-Easterly in the north of Scandinavia. Variable over the more central parts of the United Kingdom, light from the Eastward in the south of England, the west and south of France, and the greater part of Spain. Light or moderate from the Northward over Italy, Austria, and the south of Russia. Well marked cyclonic circulation appearing later over England and France; North-Westerly wind blowing freshly in the west of France.

Barometer highest, 30·2 ins. to 30·3 ins. in an anticyclone lying over central Europe, as well as in another system lying over the north-west of Spain. Lowest, 29·5 ins. and less in a depression off the north-west of Norway. Shallow disturbance lying over the Bay of Biscay in morning, developing considerably in intensity in evening and advancing in a north-easterly direction over the south-east of England; barometer falling briskly at all our southern stations. Depression off Norwegian coasts travelling away to the north-eastward.

Wednesday, 29th June.

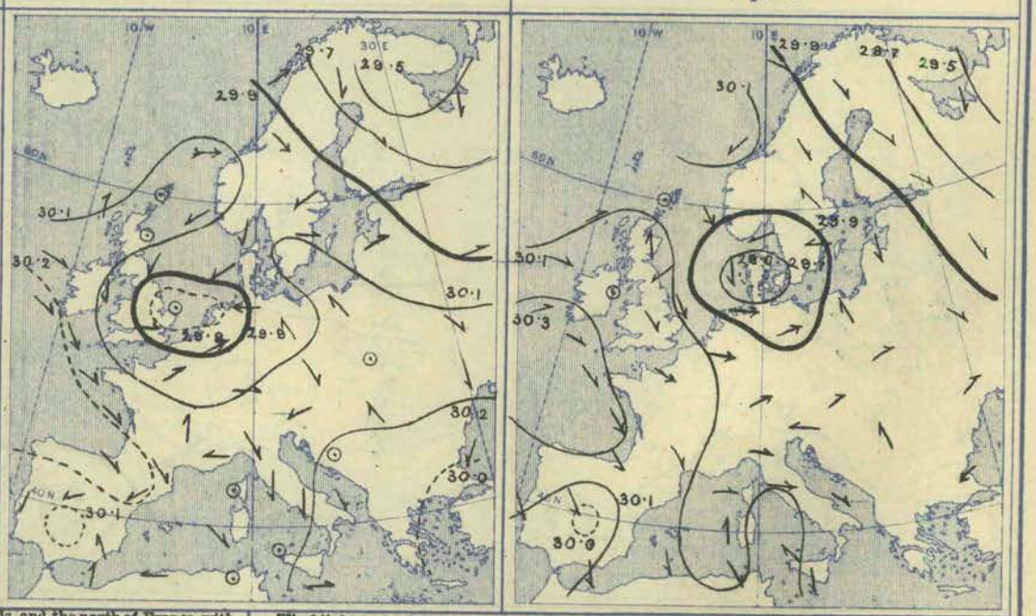
Temperature and Weather. 8 a.m.



Weather dull over England, the south of Scotland, the Netherlands, and the north of France, with rain in our northern counties. Fine and bright in Ireland and the north of Scotland, as well as at most of the Continental stations. Considerable improvement taking place over England later, but rain falling in the Netherlands, Denmark, and north Germany, and thunder occurring at Fanö, as well as in many parts of Germany and Austria.

Temperature highest, 86° at Brindisi, 82° at Toulon, and 79° at Nice and Trieste; above 75° at several of the Mediterranean and Adriatic stations, and above 70° over Germany and central France. Lowest, (1) 45° at Bodö, 47° at Christiansund, and 52° at Hernösand; (2) 50° at Spurn Head, 51° at York and Liverpool, and 52° at Loughborough; below 55° at many of our northern and central stations. Daily maxima below 60° over the eastern and central parts of England, but thermometer exceeding 80° in many parts of France and Germany, exceeding 85° in Spain and Italy, and reaching 99° at Madrid.

Barometer and Wind. 8 a.m. and 6 p.m.



Wind light to fresh from the North-Westward on the west coasts of our Islands and France, light from South-West over central France and from South-East in western Germany; moderate Easterly in Denmark; North-Easterly on our north-east coasts, and strong in force at Spurn Head. Light from the Southward in the north of Scotland. Strong to a gale from the South-Westward in the north of Norway; Westerly or North-Westerly over Sweden and Russia, light and variable in Austria; Northerly or North-Westerly in Italy, Southerly in Algeria. Subsequently shifting to the Westward in Germany, and to the Eastward in the south of Scandinavia.

Barometer highest, 30·2 ins. and upwards in an anticyclone extending from the Atlantic across the west of Ireland, the Bay of Biscay, and the north of Spain; 30·1 ins. and upwards over southern and eastern Europe generally.—Lowest, 29·5 ins. and less in a depression lying over Lapland, 29·8 ins. and less in a well marked disturbance having its centre between the coasts of Norfolk and Holland. Latter system subsequently travelling away to Denmark, and barometer rising briskly over England.

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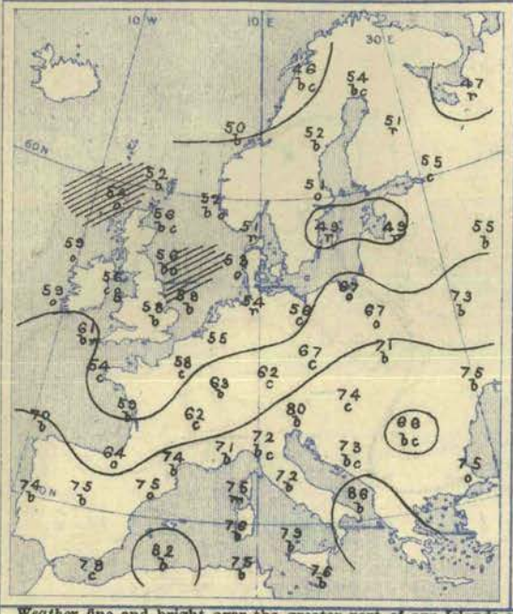
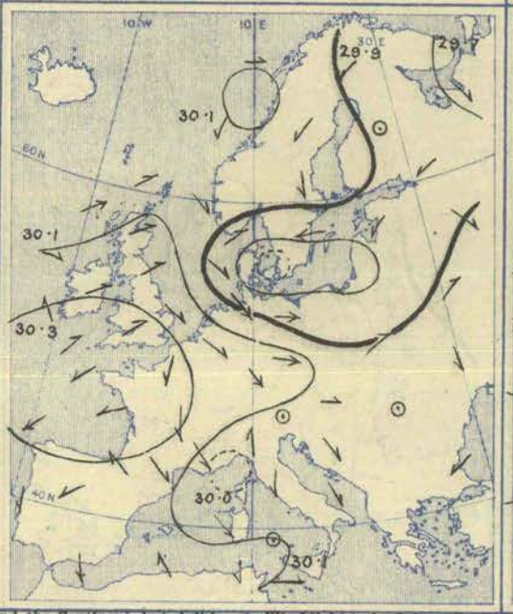
III.—SUMMARY OF WEATHER OVER EUROPE.

Thursday. 30th June.

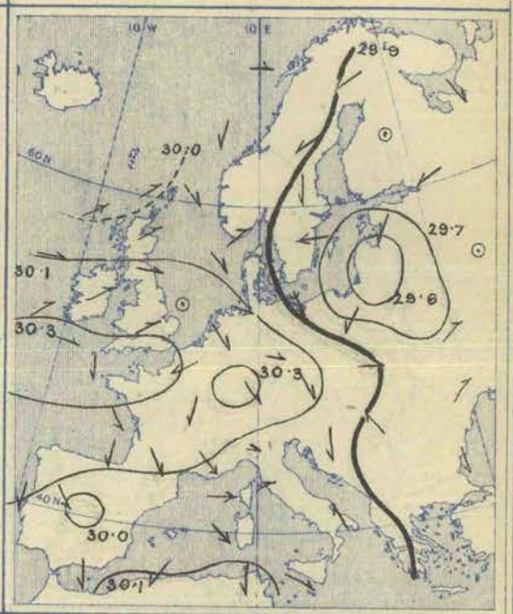
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather fine and bright over the greater part of our Islands and the Continent, but dull in Germany, and rainy over Denmark and the Baltic. Showers falling later in Ireland and the north of Scotland, with thunder at Donaghadee. Lightning reported at Lyons. Weather improving considerably over Denmark and western Germany.

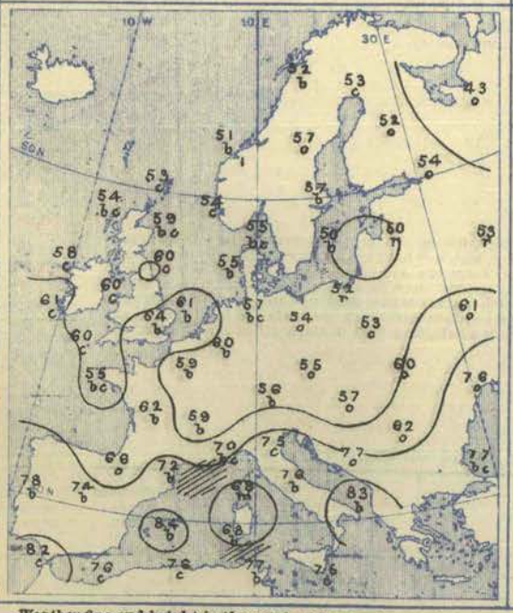
Temperature highest, 86° at Brindisi, 82° at Algiers, 80° at Trieste, and 79° at Leghorn and Palermo, above 75° at most of the Adriatic and Mediterranean stations, and above 70° over the southern parts of Russia. Lowest, 46° at Bodö, 47° at Archangel, 49° at Wisby, Riga, and Cambridge, and 50° at Christiansund; below 55° over Scandinavia and northern Russia generally, and below 60° in nearly all parts of the United Kingdom. Rising during day to 70° or a little above in the south-east of England and also at Donaghadee; exceeding 75° at many of the French stations, and exceeding 85° in parts of Spain and Italy, the highest reading of all being 100° at San Fernando.

Wind light to fresh from the South-Westward or Southward in Ireland and Scotland, but Westerly over the greater part of England, and North-Easterly in France and Spain; moderate to strong from the Northward over Sweden and the south of Norway, but strong to a gale from East at Wisby and the Scaw; strong from North-West or West in Holstein and Germany; light from the South-Westward in Poland; light from the Northward in Italy, but variable in Algeria. Subsequently veering to the Westward in Ireland, but backing to the South-Westward at some of the English stations; no important change occurring on Continent.

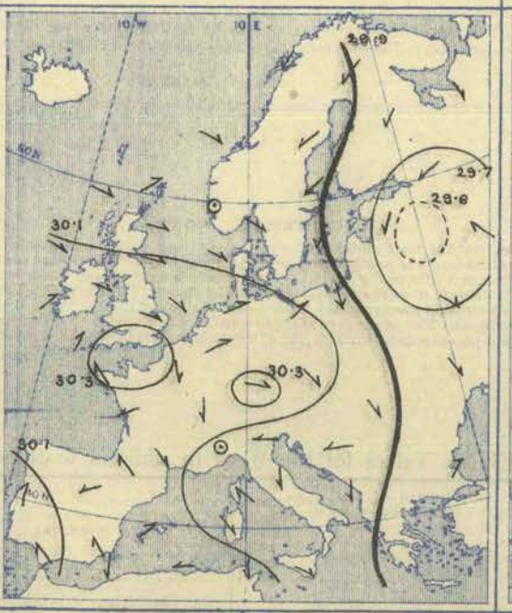
Barometer highest, 30·2 ins. to 30·3 ins. in an anticyclone covering Ireland, England, the Netherlands, France, the Bay of Biscay, and the north of Spain. Lowest, 29·6 ins. and less in a well marked depression having its centre over Zealand, 29·0 ins. and less in a shallow area lying off the north-west of Scotland, and also in a small depression lying over the Gulf of Genoa. Danish depression subsequently travelling eastward to the Baltic Provinces; disturbance off north-west of Scotland moving north-eastwards.

Friday, 1st July.

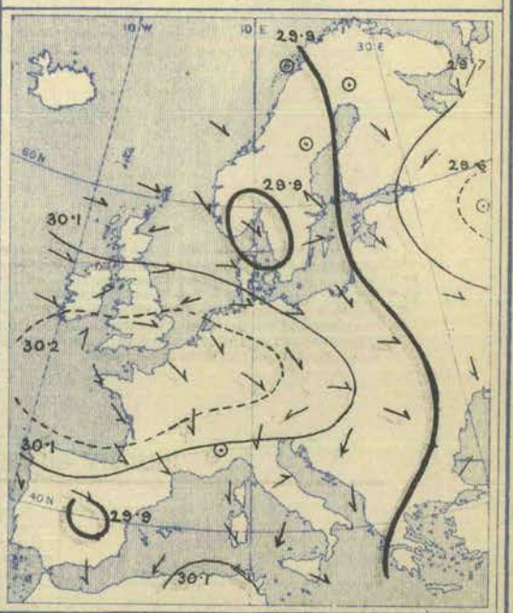
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather fine and bright in the south of England, as well as in most other parts of western and southern Europe. Dull in Russia, Germany, and Austria, with rain in the Baltic Provinces and also at Uleaborg and Moscow. Rain falling later in the west of our Islands, and heavy showers at one or two of our east coast stations, with hail at Yarmouth. Weather improving over the Baltic, but thunderstorms occurring at some of the German and Danish stations.

Temperature highest, 84° at Palma, 83° at Brindisi, 82° at San Fernando, and 78° at Corunna and Barcelona, above 75° in many parts of southern and eastern Europe. Lowest, 43° at Archangel, 50° at Wisby, Riga, and Breslau, and 51° at Christiansund; below 55° over the northern and central parts of Russia generally, the north of Scandinavia, and the extreme north of the United Kingdom. Rising during day to between 70° and 73° over the inland parts of England, and to 75° and upwards in France; exceeding 80° in most parts of southern Europe, and reaching 98° at Madrid.

Wind light to moderate from the Westward or South-Westward over our Islands and the Netherlands, and from the North-Westward over Denmark, Germany, Austria, and the south of Russia; light from the North-Eastward over the northern parts of Russia and Sweden; Northerly in Algeria and the southern parts of Italy; Easterly in Spain and the west of France; variable over central France. No important change occurring during day.

Barometer highest, 30·20 ins. to 30·35 ins. in an anticyclone covering the greater part of England, Ireland, the Bay of Biscay, France, and Germany. Lowest, 29·6 ins. and less in a well marked but somewhat shallow depression lying over western Russia, 29·5 ins. and less in a shallow system lying to the northward of Scotland. Anticyclone giving way gradually during day, depression over western Russia moving eastwards; new but shallow disturbance forming over the Kattegat and the south of Sweden.

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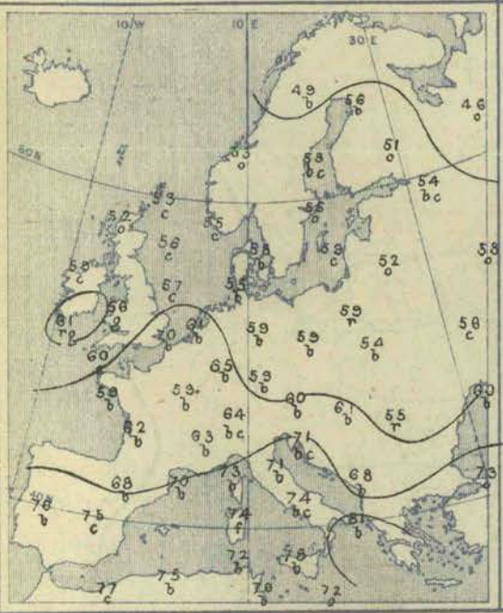
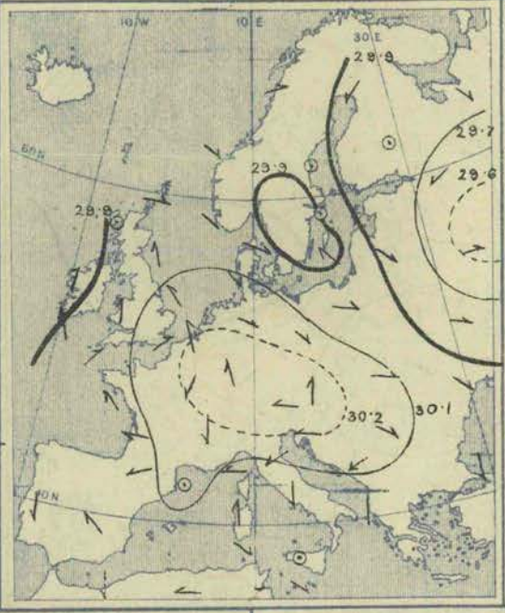
Saturday, 2nd July.

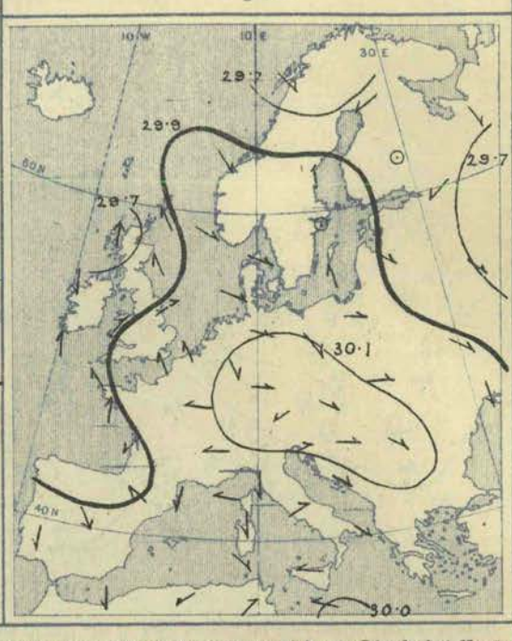
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather fine and bright over England and the greater part of the Continent, but cloudy in Scotland, with rain at Leith, as well as at many of the Irish stations. Dull also over Poland and the Baltic, with rain at Cracow and Neufahrwasser. Heavy rain falling later in Ireland (1·7 inches at Valencia Island and 1·2 inches at Malin Head) and smaller quantities in Scotland; lightning occurring at Bordeaux, and a thunderstorm at Neufahrwasser.

Temperature highest, 81° at Brindisi, 79° at Barcelona and Tunis, 78° at La Calle, and 77° at Oran, above 70° in most parts of southern Europe, and varying between 65° and 70° over the inland parts of England. Lowest, (1) 46° at Archangel, 51° at Kuopio, and 52° at Riga and Cracow; (2) 49° at Bodö, 52° at Stornoway, and 53° at Sumburgh Head and Wick. Rising later to between 75° and 77° at several of the English stations, exceeding 80° in most parts of France and southern Europe, and reaching 95° at Biarritz, and 97° at Rochefort.

Wind light to moderate from the Southward or South-Eastward in our Islands, but North-Westerly in Norway, Denmark, and north Germany, and Westerly in Austria and the south of Russia; light from the Northward or North-Eastward in the north of Russia; calm in Sweden; Easterly in the west and south of France; Northerly in Italy; variable in Spain and Algeria. No important change occurring during day, but Southerly wind blowing strongly in the Hebrides.

Barometer highest, 30·1 ins. to 30·3 ins. in a large anticyclone covering England, France, Germany, Austria, and northern Italy. Lowest, 29·6 ins. and less in a well marked but shallow depression lying over central Russia, 29·9 ins. and less in a small shallow system over the south of Sweden, and also in another disturbance lying to the westward of the United Kingdom. Swedish depression filling up later; Atlantic disturbance travelling slowly in a north-north-easterly direction outside the west of Scotland.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟹ = a heavy gale; ⟶ = a gale; → = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During the greater part of the week the weather over the more central and southern portions of Europe was under the influence of a large anticyclone, the central area of which lay for the most part over France and the Bay of Biscay. The weather in those regions was therefore mostly fine and dry, with very high temperatures, especially over central Spain. In the more northern countries the conditions were affected by a series of depressions which advanced eastwards from the Atlantic across Scandinavia, and which occasioned freshening South-Westerly and Westerly winds in most places, with changeable, showery weather. The only serious interruption to the general state of affairs occurred between the 28th and 29th, when a depression which was originally formed over the Bay of Biscay, travelled north-eastwards past the south-east coast of England to Denmark and the Baltic, and eventually to central Russia. The progress of this disturbance was attended by severe thunderstorms and heavy rain over England, France, and Germany; and on the 29th and 30th, when the system passed across Denmark, the surrounding winds blew with the force of a gale, from East in the south of Scandinavia, and from North-West and West in Germany.

BRIGHT SUNSHINE Values for the Week in addition to those found on page 152.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	44·6	?	37	?	EASTBOURNE	67·3	?	59	?
OSWALDKIRK (Yorkshire)	? 25·6	?	? 22	?	TENBY	28·4 *	?	25 *	?
WORKSOP	33·8	− 1·2	29	− 1	NEWQUAY	39·0	?	35	?
THURCASTON (Leicestershire)	43·4	+ 7·4	37	+ 6	TORQUAY	58·2 *	?	52 *	?
MARGATE	68·7	?	60	?	ARLEY COTTAGE (County Cavan)	38.3	?	32	?
WESTBOURNE (Sussex)	61·0 *	?	54 *	?	GUERNSEY	68·6 *	?	61 *	?
BRIGHTON	56·7	?	50	?					

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

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VOL. IX. No. 27.] *Third Series.* WEEK ENDING SATURDAY, 9TH JULY, 1892. [*Price 6d.* [*Annual subscription, post paid, £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years' observations (1871–90). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the ten years 1881-90. RAINFALL.—*The Mean amounts* are those for the corresponding periods in the twenty-five years 1866–90, but the *Mean numbers of Rainy Days* are those for the ten years 1881-90, only. BRIGHT SUNSHINE.—*The Mean values* employed are those for the corresponding periods in the ten years 1881–90.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 158.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1892. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	67	42	57·8	47·6	52·3	2 below.	72	− 3	0	0	725	− 9	754	+212
	1. SCOTLAND, EAST -	66	45	61·4	48·6	54·5	2 below.	88	− 9	0	0	896	−91	810	+241
	2. ENGLAND, N.E. - -	78	40	64·2	51·1	57·2	1 below.	106	− 1	0	0	993	−12	684	+186
	3. ENGLAND, EAST -	85	47	70·1	52·7	60·3	1 above.	132	+12	0	0	1204	− 8	771	+210
	4. MIDLAND COUNTIES	84	41	67·1	50·6	58·3	1 below.	114	− 2	0	0	1253	+20	802	+250*
	5. ENGLAND, SOUTH -	81	43	67·8	53·6	60·2	0 (average)	127	+ 2	0	0	1288	−37	554	+138
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	62	46	59·6	50·0	54·5	2 below.	88	−10	0	0	968	−53	610	+193
	7. ENGLAND, N.W. -	76	48	62·8	52·2	57·2	1 below.	106	− 2	0	0	1068†	−17	579	+165
	8. ENGLAND, S.W. -	80	45	63·9	52·7	57·9	1 below.	111	− 4	0	0	1238	− 8	433	+117
	9. IRELAND, NORTH -	68	43	60·1	50·2	54·8	2 below.	90	−10	0	0	1075	−53	484	+122
	10. IRELAND, SOUTH -	71	45	63·4	51·6	57·1	1 below.	106	− 4	0	0	1278	−27	410	+132
	— CHANNEL ISLANDS -	70	52	66·0	56·4	60·9	1 above.	132	+12	0	0	1408	+33	164	+ 42

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 158.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1892. Number of Rainy Days.	Difference from Mean.	Total Fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1892. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of In.	10ths of In.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	7	17	9 more.	129	+ 7	22·1	− 0·7	14	−12	12	− 9	716	+ 18	29	0
	1. SCOTLAND, EAST -	6	10	4 more.	103	+ 5	12·8	− 1·7	29	− 9	24	− 9	832	+ 45	34	+ 2
	2. ENGLAND, N.E. - -	5	7	1 more.	103	+12	12·3	+ 0·5	43	+ 4	37	+ 5	815	+106	33	+ 3
	3. ENGLAND, EAST -	4	6	0 (average)	95	+ 6	10·6	− 1·2	55	+ 8	48	+ 7	935	+ 80	39	+ 3
	4. MIDLAND COUNTIES-	5	6	0 (average)	87	− 1	10·3	− 3·0	45	+ 4	39	+ 5	894	+137	37	+ 6
	5. ENGLAND, SOUTH -	3	5	0 (average)	72	−14	7·9	− 5·0	60	+17	53	+14	1015	+203	42	+ 8
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	6	20	11 more.	102	− 3	20·1	− 3·4	30	−11	25	−10	850	+ 77	35	+ 3
	7. ENGLAND, N.W. - -	6	9	3 more.	102	+ 7	15·3†	+ 0·2	38	− 2	32	− 2	888	+123	36	+ 4
	8. ENGLAND S.W. - -	5	8	2 more.	89	− 9	11·7	− 6·7	41	− 4	37	− 5	1011	+114	42	+ 4
	9. IRELAND, NORTH -	7	15	8 more.	109	− 3	17·3	− 0·4	34	− 1	29	0	801	+ 68	33	+ 3
	10. IRELAND, SOUTH -	6	13	7 more.	97	− 6	16·8	− 2·0	39	+ 1	34	+ 2	885	+ 51	37	+ 2
	— CHANNEL ISLANDS -	5	3	2 less.	94	−12	12·3	− 2·7	74	+21	67	+18	1166	+133	49	+ 6

Bright Sunshine.—For several of the stations there are no "mean" values available, and the "difference from the mean" in some of the districts is consequently that of only a few of the stations.

General Remarks.

Weather during this week was extremely unsettled, with frequent and rather heavy rain in the western and northern parts of the Kingdom, but in the south and east the conditions were generally fair, although rain fell during the middle part of the period, and again at some stations towards its close.

Temperature was rather above the mean in England E. and the Channel Islands, and just equal to it in England S.; in all other districts, however, there was a slight deficit. The highest of the maxima, which were recorded on the 3rd over England, and on irregular dates in Ireland and Scotland, ranged from 85° in England E., 84° in the Midland Counties, 81° in England S., and 80° in England S.W., to 68° in Ireland N., 66° in Scotland E., and 62° in Scotland W. During the greater part of the period the daily maxima were below 70°. The lowest of the minima were recorded on very irregular dates, and varied from 40° in England N.E., and 41° in the Midland Counties, to 48° in England S.W., and 52° in the Channel Islands.

Rainfall exceeded the mean in Ireland, Scotland, and the western and north-eastern parts of England; in the Midland Counties and England S. and E., however, it just equalled the normal, while in the Channel Islands it was rather less. In Ireland and the north and west of Scotland the excess was considerable.

Bright Sunshine continued fairly prevalent over the eastern and southern districts, but showed a decline in the north and west, where it was less than the normal. The percentage of possible duration ranged from 67 in the Channel Islands, and from between 48 and 53 in the east and south of England, to 29 in Ireland N., 24 in Scotland E., and to only 12 in Scotland N.

Barometer and Wind.—The barometer continued highest in the south, and depressions again travelled in a north-easterly direction outside or over our extreme north-western and northern coasts. That observed on the 7th was very deep for the time of year, and caused the South-Westerly and Westerly wind to increase to the force of a moderate to fresh gale in nearly all parts of the Kingdom. At the end of the week a depression was passing eastwards over Ireland and England, causing variable breezes at the more northern stations and moderate to fresh South-Westerly winds in the south.

* The corresponding value in last week's report should be "250."

† This value has been altered owing to the receipt of further information.

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II.—DATA from which the SUMMARY on page 157 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head S	58	43	55·3	46·3	50·5	− 1·2	60	0	6	0·93	+0·44	*	*	*	*
	Stornoway S	60	45	57·3	47·4	52·0	− 1·9	70	0	7	0·72	+0·02	24·1	−12·0	20	− 9
	Wick S	62	42	59·0	46·1	52·1	− 2·4	71	0	7	1·07	+0·59	*	*	*	*
	Lairg S	67	46	59·1	47·5	52·9	− 2·0	76	0	7	1·44	+0·82	*	*	*	*
	Glencarron S	59	45	57·0	46·5	51·4	− 2·8	66	0	6	2·55	+1·23	*	*	*	*
	Fort Augustus S	62	45	59·1	49·2	53·8	− 2·4	83	0	? 6	? 1·87	? +1·20	9·4	?	8	?
	Fort William S	61	48	57·9	50·0	53·7	− 2·8	82	0	7	3·21	+2·09	9·2	?	8	?
1. SCOTLAND, E.	Nairn S	64	46	61·7	47·9	54·3	− 2·6	86	0	6	1·32	+0·82	*	*	*	*
	Aberdeen S	66	45	62·9	48·6	55·3	− 1·2	93	0	6	0·59	+0·06	30·8	−10·1	25	− 9
	Braemar S	59	45	57·3	47·1	51·8	− 2·5	69	0	6	1·15	+0·52	18·0†	?†	15†	?†
	Ochtertyre S	65	45	62·3	48·7	55·0	− 1·7	91	0	6	1·00	+0·29	*	*	*	*
	Leith S	65	48	63·4	50·6	56·6	− 1·4	102	0	6	0·67	+0·07	*	*	*	*
	Marchmont S	63	45	60·9	48·4	54·2	− 2·2	85	0	5	1·28	+0·56	34·5	?	29	?
2. ENGLAND, N.E.	Alnwick Castle	64	40	62·3	47·8	54·6	− 1·9	88	0	7	1·16	+0·56	*	*	*	*
	Durham	72	46	64·9	50·7	57·3	− 1·1	107	0	4	0·76	+0·16	42·4	+ 6·2	36	+ 4
	Shields	65	47	63·3	50·7	56·6	− 0·8	102	0	4	0·38	−0·13	*	*	*	*
	Scarborough ℳ												*	*	*	*
	York	78	49	66·4	53·1	59·3	0·0	121	0	5	0·52	−0·05	42·3	+ 5·0	36	+ 5
	Spurn Head	67	51	64·1	53·4	58·4	− 0·5	115	0	4	0·44	+0·07	*	*	*	*
3. ENGLAND, E.	Hillington ℳ	83	47	70·0	51·6	60·2	+ 0·5	127	0	5	0·49	−0·12	45·5	+ 2·8	39	0
	Yarmouth	74	50	69·4	54·3	61·3	+ 1·8	135	0	6	0·70	+0·12	*	*	*	*
	Geldeston	76	49	70·4	53·4	61·3	+ 1·5	135	0	4	0·52	0·00	61·5	+14·7	54	+12
	Cambridge	85	48	71·3	52·3	61·1	+ 0·3	134	0	3	0·63	+0·07				
	Rothamsted	79	48	69·5	52·0	60·5	+ 0·9	130	0	2	0·74	+0·13	57·8	?	51	?
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	81	41	67·1	48·9	57·4	− 2·5	108	0	5	0·25	−0·35	*	*	*	*
	Loughborough	84	50	68·9	53·6	60·7	− 0·4	131	0	5	0·48	−0·03	*	*	*	*
	Stamford (Ketton Hall)	84	44	68·7	50·7	59·5	− 1·3	123	0	5	0·27	−0·31	*	*	*	*
	Cheadle ℳ	78	45	63·0	49·1	55·6	− 1·8	95	0	5	0·83	+0·14	*	*	*	*
	Churchstoke ℳ	79	46	65·3	49·6	56·9	− 0·6	104	0	5	0·25	−0·32	41·9	+ 2·1	36	+ 1
	Hereford ℳ	83	46	67·5	51·4	58·9	− 1·0	118	0	5	0·31	−0·21	*	*	*	*
	Cirencester	80	43	66·6	49·1	57·2	− 1·4	106	0	4	0·95	+0·32	44·5	+ 3·4	39	+ 3
	Oxford	82	49	68·6	52·7	60·1	− 0·2	127	0	3	1·17	+0·62	51·7	+ 9·3	45	+ 8
5. ENGLAND, S.	London	81	50	71·9	54·1	62·4	+ 0·3	143	0	2	0·44	−0·09	60·1†	+21·3†	53†	+18†
	North Foreland	75	50	69·1	53·7	60·9	+ 1·2	132	0	2	0·36	?	*	*	*	*
	Strathfield Turgiss ℳ	80	43	69·9	49·8	59·2	− 1·6	120	0	4	0·81	+0·31	*	*	*	*
	Dungeness	70	52	65·9	54·7	59·9	− 0·7	125	0	2	0·13	−0·27	*	*	*	*
	Hastings (St. Leonards)	69	51	65·1	54·6	59·4	− 1·1	122	0	2	0·26	−0·19	68·4	+19·1	61	+17
	Southampton	75	50	68·8	53·3	60·8	− 0·4	132	0	3	0·66	+0·16	55·7	+ 9·7	49	+ 7
	Hurst Castle	68	55	65·0	56·9	60·7	+ 0·1	131	0	3	0·40	−0·10	*	*	*	*
	Stowell ℳ	76	48	66·3	51·4	58·3	− 1·3	114	0	4	0·63	?	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	61	46	58·6	47·3	52·6	− 4·1	74	0	7	2·83	+1·59	*	*	*	*
	Glasgow	62	48	59·8	50·2	54·7	− 2·3	89	0	6	1·29	+0·54	22·1	−11·4	18	−11
	Ardrossan	62	51	59·0	52·1	55·3	− 2·2	93	0	5	0·98	+0·35	*	*	*	*
	Glenlee S	62	47	60·2	49.8	54.6	− 1·7	88	0	7	2·86	+1·98	*	*	*	*
	Douglas (Isle of Man)	62	48	60·6	50·7	55·3	− 1·4	93	0	5	1·86	+1·25	37·2	− 9·7	32	− 9
7. ENGLAND, N.W.	Newton Reigny	66	48	61·1	50·5	55·4	− 1·5	94	0	6	1·16	+0·53	31·8	− 8·5	27	− 6
	Stonyhurst	71	49	61·9	52·0	56·6	− 1·5	102	0	4	0·52	−0·43	45·2	+ 6·0	39	+ 5
	Blackpool ℳ	69	52	65·0	54·3	59·3	+ 0·8	121	0	4	0·59	−0·02	32·0	− 8·8	27	− 8
	Manchester	75	48	63·0	51·0	56·6	− 1·7	102	0	7	2·45	+1·65	*	*	*	*
	Liverpool Obsy. (Bidston)	74	51	64·1	52·9	58·1	− 1·4	113	0	7	0·54	−0·06	*	*	*	*
	Llandudno ℳ												41·4	+ 3·3	36	+ 3
	Holyhead	67	50	61·9	52·7	57·0	− 1·4	105	0	6	0·58	+0·08	*	*	*	*
8. ENGLAND, S.W.	Llandovery	80	45	66·4	50·0	57·6	− 1·6	109	0	7	1·55	+0·75	*	*	*	*
	Pembroke	63	53	59·4	54·0	56·5	− 1·2	102	0	6	0·72	+0·22	37·6	−11·1	33	−10
	Arlington (N. Devon)	70	46	62·7	51·3	56·6	− 1·1	102	0	7	1·68	+0·70	*	*	*	*
	Cullompton ℳ	77	49	68·1	52·1	59·5	+ 0·1	123	0	2	0·29	−0·34	37·0	− 4·6	33	− 4
	Falmouth	70	51	65·6	53·3	59·0	− 0·5	119	0	5	0·39	−0·22	47·1	− 3·0	42	− 2
	Plymouth															
	Prawle Point	65	52	61·4	55·4	58·2	− 0·1	113	0	3	0·39	−0·08	*	*	*	*
9. IRELAND, N.	Malin Head	61	49	57·0	50·9	53·7	− 2·9	82	0	7	0·92	?	*	*	*	*
	Londonderry	?	48	?	49·8	?	?	?	0	7	1·24	+0·52	*	*	*	*
	Endenfel (Omagh)	64	46	59·4	49·4	54·1	− 3·6	85	0	7	1·64	+0·92	*	*	*	*
	Mullaghmore	63	50	58·9	51·9	55·2	− 2·4	92	0	7	0·96	+0·18	*	*	*	*
	Belmullet	64	49	59·1	51·3	54·9	− 2·0	90	0	5	1·16	?	*	*	*	*
	Markree Castle	65	44	60·8	48·7	54·3	− 2·1	86	0	7	1·02	+0·24	34·6	+ 3·3	30	+ 4
	Brookeborough	66	45	62·0	47·8	54·4	− 2·1	87	0	7	1·67	+0·94	*	*	*	*
	Armagh	68	43	61·3	48·4	54·4	− 3·1	87	0	7	1·97	+1·35	31·0	− 3·2	26	− 3
	Donaghadee	67	51	62·6	52·9	57·4	+ 0·5	108	0	7	1·03	+1·39	*	*	*	*
	Edgeworthstown	?	43	?	47·9	?	?	?	0	7	1·95	+1·19	*	*	*	*
10. IRELAND, S.	Dublin	71	49	65·7	52·7	58·8	− 0·9	118	0	6	0·78	+0·29	41·9	+ 4·0	36	+ 4
	Parsonstown	66	45	62·9	50·6	56·3	− 1·5	100	0	6	1·36	+0·74	36·4	+ 0·6	31	0
	Kilkenny	67	45	64·9	50·7	57·3	− 1·0	107	0	7	1·40	+0·88	*	*	*	*
	Waterford	68	46	64·6	51·5	57·6	− 1·6	109	0	6	1·15	+0·53	*	*	*	*
	Roche's Point	65	51	62·7	53·0	57·5	− 2·0	109	0	5	1·35	+0·63	*	*	*	*
	Valencia	63	48	61·6	52·9	57·0	− 1·2	105	0	7	1·53	+0·68	39·0	+ 0·2	34	0
	Killarney	67	44	62·3	50·7	56·1	− 1·7	99	0	7	1·67	?	*	*	*	*
	Foynes	66	46	62·5	50·7	56·2	− 1·8	99	0	7	1·33	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	68	54	64·3	56·0	59·9	+ 0·5	125	0	6	0·32	−0·19	*	*	*	*
	Jersey	70	52	67·7	56·7	61·8	+ 0·6	139	0	3	0·29	−0·22	72·8	+20·8	66	+18

Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked S with the Scottish Meteorological Society.

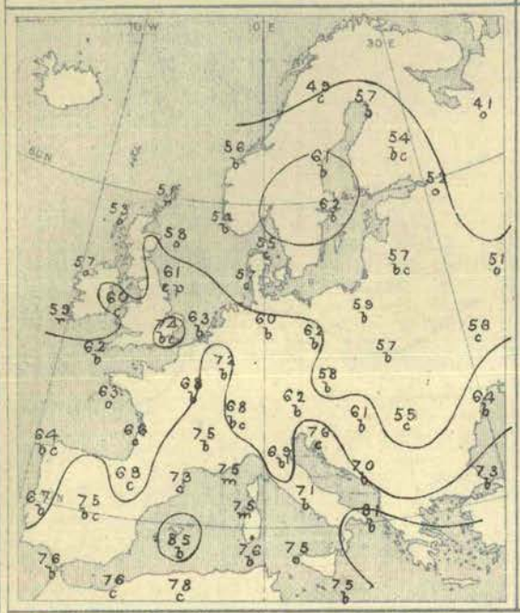
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory and the Meteorological Office, Victoria Street. For additional Reports of Sunshine see last page. NOTE.—It will be observed that Edenfel (Omagh) has been added to the list of stations in "Ireland, N."

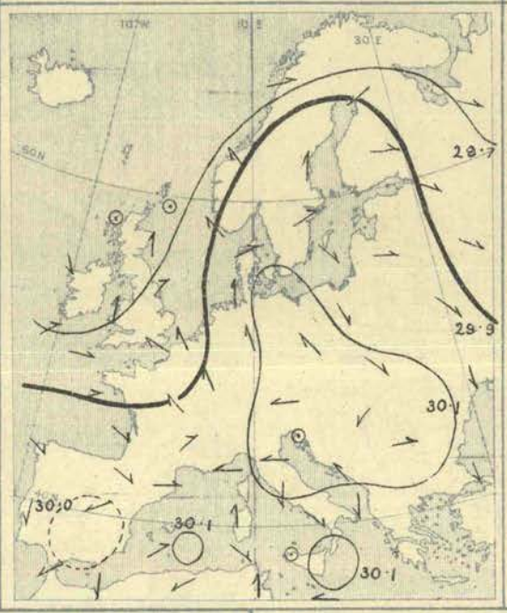
III.—SUMMARY OF WEATHER OVER EUROPE.

Sunday, 3rd July.

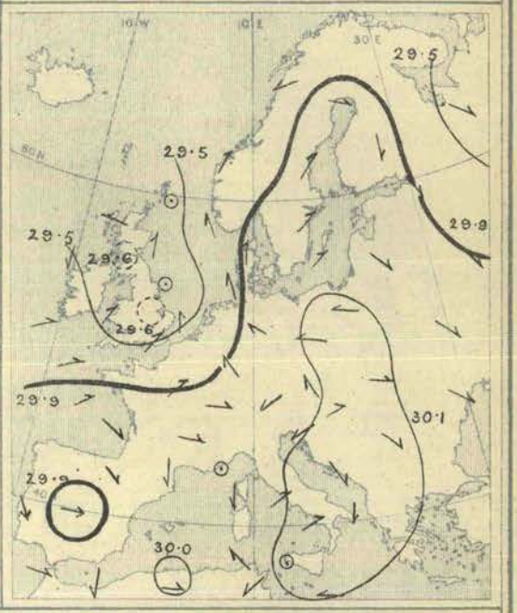
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather fine and bright over the greater part of England and the Continent, dull and showery in Ireland, Scotland, and the north of England; foggy at Roche's Point; cloudy also in the west of France. Cloudy, unsettled weather spreading later to all but the south-eastern parts of the United Kingdom; thunderstorms occurring in the north of England, and heavy rain falling at many of our northern stations, the largest amounts being 1·2 ins. at Nairn, and 0·7 in. at Donaghadee; heavy thunderstorms locally in some parts of France, and 0·6 in. of rain at Archangel.

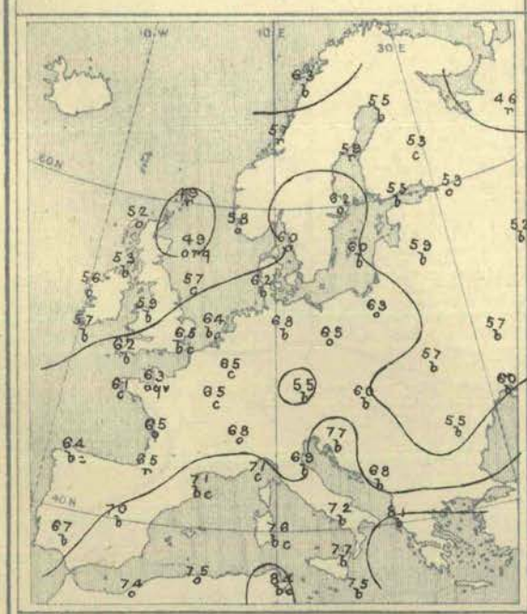
Temperature highest, 85° at Palma, 81° at Brindisi and Aumale, 79° at La Calle, and 78° at Barcelona and Algiers; above 70° in nearly all parts of southern and eastern Europe, and also in the inland parts of the south-east of England. Lowest, 41° at Archangel, 49° at Bodö, 51° at Moscow and Sumburgh Head, and 52° at St. Petersburg, below 55° over northern and central Russia generally, as well as in the extreme north of Scotland. Rising during day to between 80° and 85° over the central parts of England, to between 85° and 90° in many parts of Italy, France, and Belgium; exceeding 90° over Spain, and touching 100° in Algeria.

Wind light to moderate from the South-Westward or Westward in the western parts of our Islands and France, South-Easterly over England, the Netherlands, north Germany, Denmark, and the south and west of Norway; light from the North-Westward or Northward over Russia, and also in the southern parts of Italy; variable in Austria, Spain, and the south of France; chiefly Easterly in Algeria. Subsequently veering to the North-Westward in Ireland, and to the South-Westward in the south of England; blowing strongly in the eastern parts of the Channel.

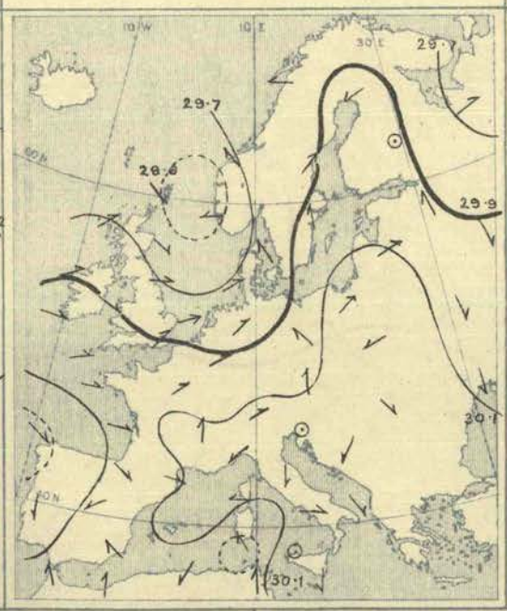
Barometer highest, 30·1 ins. and upwards in anticyclone lying over Germany, Austria, and northern Italy. Lowest, 29·7 ins. and less in Ireland and Scotland, and also over northern Russia. Shallow depressions appearing during day over the more northern parts of the United Kingdom; barometer rising again in the west towards evening, falling over the North Sea and Norway.

Monday, 4th July.

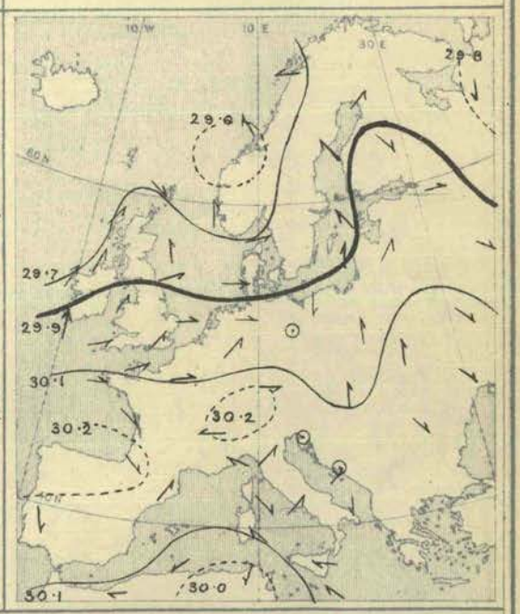
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fine and bright over Russia, Austria, south-eastern, and the greater part of southern Europe; changeable and unsettled in the north-west, with much rain in the eastern half of Scotland. Showers at our western and northern stations generally during day, considerable rain in some parts of France, and heavy fall at Munich and in Austria; thunderstorms in the southern parts of Germany and France.

Temperature fallen considerably over the British Islands, the Netherlands, and north-east of France, risen over Germany and the Baltic. Morning readings, 84° at La Calle, 81° at Brindisi, and exceeding 70° at many other of the Mediterranean stations; below 60° over the northern half of our Islands and over Russia, and as low as 46° at Archangel, 48° to 49° in the north-east of Scotland, 52° at Stornoway, and 53° at Malin Head and Leith. Not reaching 78° at any of our stations during day, but touching 77° at Berlin, Wiesbaden, and Paris, 82° to 89° over Austria, southern Germany, and the southern parts of France, 90° in many parts of Italy and Algeria.

Wind light and anticyclonic over southern and eastern Europe; moderate in the north-west and north, and blowing from between North-West and South-West over the United Kingdom; from South-West and South on the eastern shores of the North Sea, and from South-East to East in Norway. Backing to the South-Westward and Southward in Ireland later, and becoming strong at the extreme western stations; veering to the West over Denmark, and freshening.

Barometer highest, 30·2 ins. and more to 30·9 ins. in a complex anticyclone covering the whole of southern, south-western, and south-eastern Europe. Lowest, 29·6 ins. and less in a depression lying over the northern parts of the North Sea, and 29·7 ins. and less in another over the north of Russia, a third, a shallow disturbance, found over the Mediterranean and south of Sardinia. New and apparently large depression approaching our western coasts later from the Atlantic, while that over the North Sea advanced north-eastwards over Russia.

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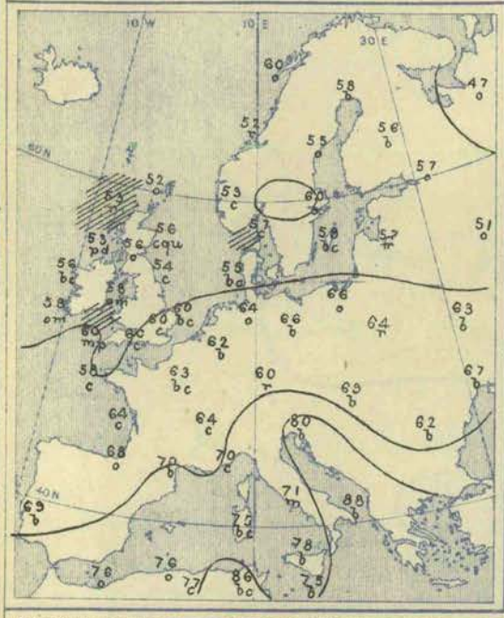
III.—SUMMARY OF WEATHER OVER EUROPE.

Tuesday, 5th July.

Temperature and Weather.

8 a.m.

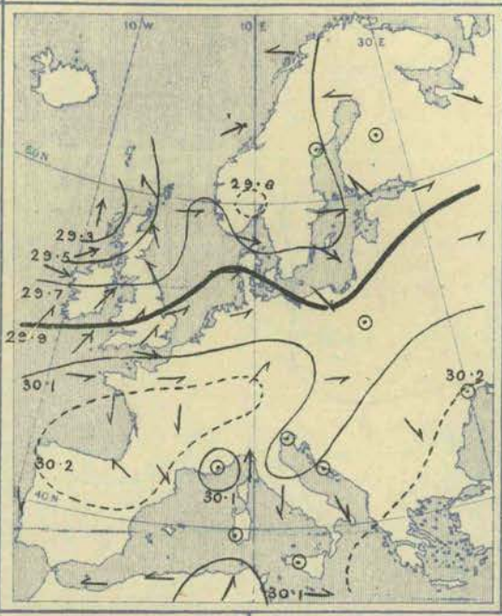


Weather in morning fine over south-eastern, central, southern, and western Europe as a whole; dull in the north-west, with rain in Norway and on our own extreme north-western coasts. Rain later over the British Islands generally, the west and north of France, and many parts of Germany, the Baltic, and northern Europe. Largest falls recorded, 1·0 ins. at Oxford, 0·6 in. at Cambridge and Yarmouth, about 0·5 in. over the Netherlands and Belgium, 0·4 in. in London, at the North Foreland and Valencia, and 0·3 in. at Loughborough; thunder and lightning at Loughborough.

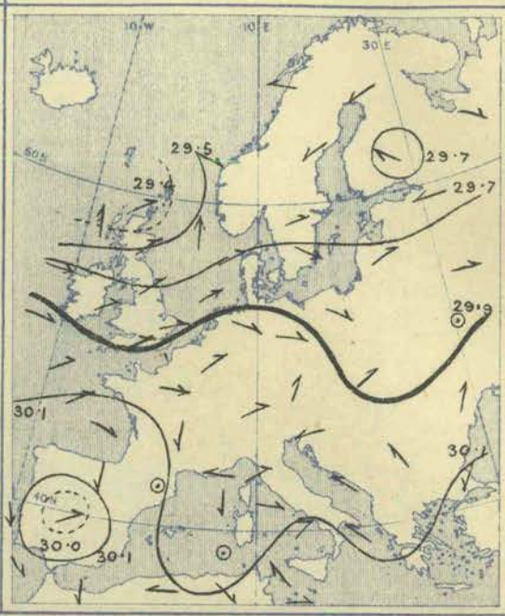
Temperature exceeding 85° at La Calle and Brindisi, and 60° over nearly the whole of the western and central countries of Europe (including the southern counties of England); lower elsewhere. Lowest, 47° at Archangel, 52° at Christiansund and Sumburgh Head, 53° at Stornoway and Malin Head. Falling to reach 70° over our Islands later, though rising to between 65° and 69° over our midland, eastern, and south-eastern counties, to 80° at Paris, and to still higher values over the southern parts of France and southern Europe generally; exceeding 100° in some parts of Algeria.

Barometer and Wind.

8 a.m.



6 p.m.



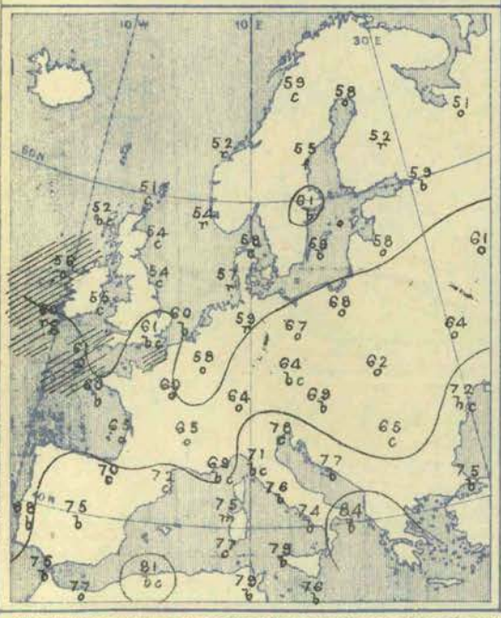
Wind chiefly Westerly over the western Continental countries and in the Channel; South-Westerly, moderate to strong, over England, and still stronger in Ireland; Southerly, fresh, in Scotland, South-Easterly in the Shetlands, very variable over northern Europe. Increasing later to a strong breeze or gale on the eastern shores of the North Sea, but remaining light over southern and central Europe.

Barometer highest, 30·2 ins. and more to 30·0 ins. over Spain, France, western and southern Germany, and the south of our Islands, also over the Black Sea and south-eastern Europe. Lowest, 29·3 ins. and less over the extreme north-west of Scotland and the Hebrides. Gradients somewhat steep over the United Kingdom. Rising over Ireland and Scotland later, falling over England. Well marked depression forming over central Spain.

Wednesday, 6th July.

Temperature and Weather.

8 a.m.



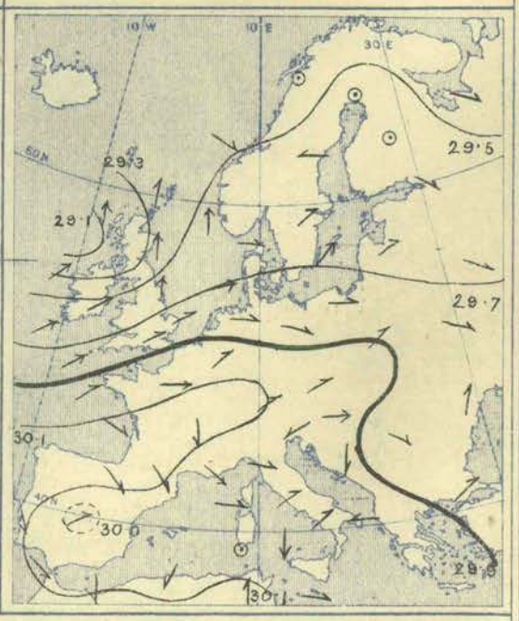
Weather in morning fine and bright over nearly the whole of south-western, southern, and south-eastern Europe, and temporarily fine in the south and east of England, and at some of the Baltic stations; dull and unsettled elsewhere. Very rainy on the eastern shores of the North Sea and the southern half of Ireland. Rain during day in nearly all parts of our Islands, north-western and northern Europe, but amounts not large; some showers in southern Russia. Remaining fine and bright over the southern half of France and the Peninsula.

Temperature showing some further decrease, except over south-eastern and southern Europe, a slight increase in the south-east and south. Morning readings, highest, 84° at Brindisi, 81° at Algiers, 70° and more over the Mediterranean shores generally, below 60° over the British Isles as a whole, as well as over Scandinavia and the north of Russia. Lowest, 51° at Archangel, Sumburgh Head, and Malin Head, 52° at Kuopio, Christiansund, and Stornoway. Rising later to between 90° and 100° over Italy, Algeria, and some parts of Spain; to 80° or more at Lisbon and Perpignan, but failing to reach 70° over the British Islands and the northern half of France.

Barometer and Wind.

8 a.m.

6 p.m.



Wind light and very variable over Russia, south-eastern and south-western Europe, and the Mediterranean; mainly Westerly to Southerly elsewhere, and becoming fresh to strong in force from those quarters over the British Islands. South-Westerly wind increasing to a full gale over the western and southern parts of our Islands and the Channel later, and Westerly wind freshening in France and on the eastern shores of the North Sea.

Barometer highest, 30·1 ins. and more over the Iberian Peninsula, the Bay of Biscay, France, Italy, and south Germany. Lowest, 29·5 ins. and less over the north of Scotland and the west of Norway. Falling fast over the United Kingdom later (especially in the west and north-west) as a well formed and rather deep depression passed north-westwards along our extreme north-west coasts from the Atlantic. Local disturbance again appearing over central Spain.

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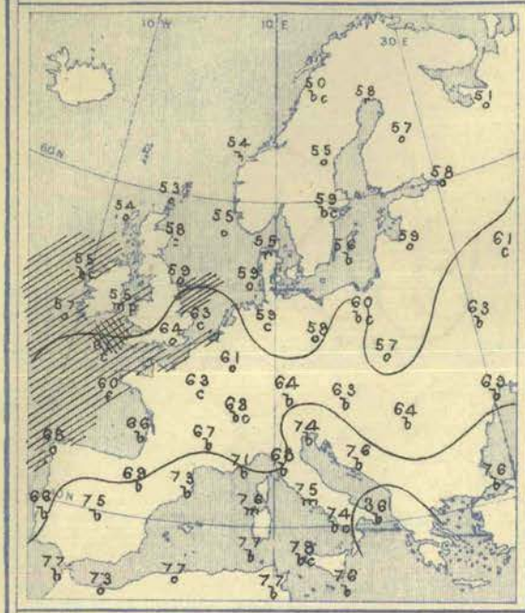
III.—SUMMARY OF WEATHER OVER EUROPE.

Thursday, 7th July.

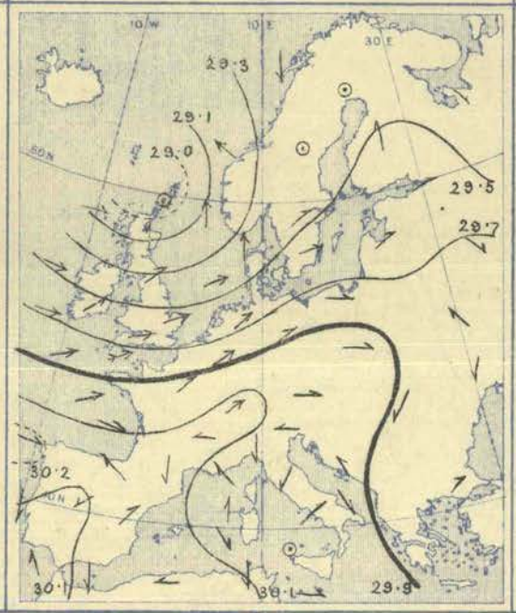
Temperature and Weather.

8 a.m.

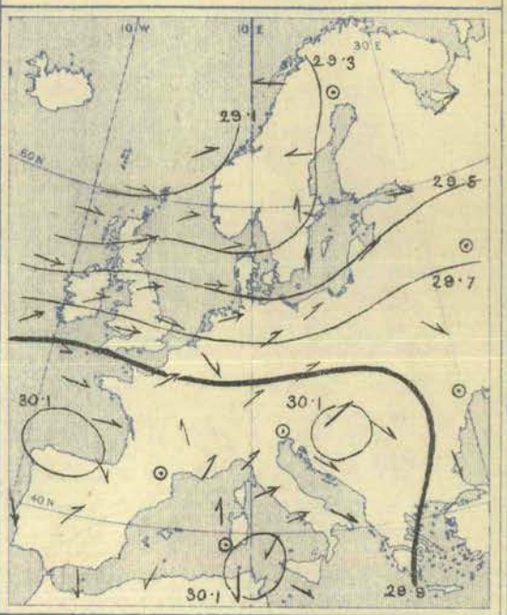


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning continuing fine and bright over nearly all the southern half of Europe, squally, showery, and unsettled in the north and north-west, including nearly the whole of the British Islands. Showers during day over almost all parts of the United Kingdom, Scandinavia, the Baltic, and north Germany; a heavy fall at Faerder, and more than 0·5 in. in the north-west of Ireland. Thunderstorm at mouth of Elbe. Brilliant lunar rainbows were seen at Sutterworth.

Temperature risen slightly over the western and north-western countries. Morning reading exceeding 80° at Brindisi only; exceeding 70° over the whole of southern and south-eastern Europe, and exceeding 60° over all the northern and north-western countries. Lowest, 50° at Bodö, 51° at Archangel, 52° at Malin Head. Rising later to 90° and more over Italy and Spain, to between 80° and 86° over the southern parts of France and at Paris; maxima ranging between 60° and 70° over the greater part of our Islands, but as low as 55° at Sumburgh Head, 57° at Wick, and 58° at Belmullet.

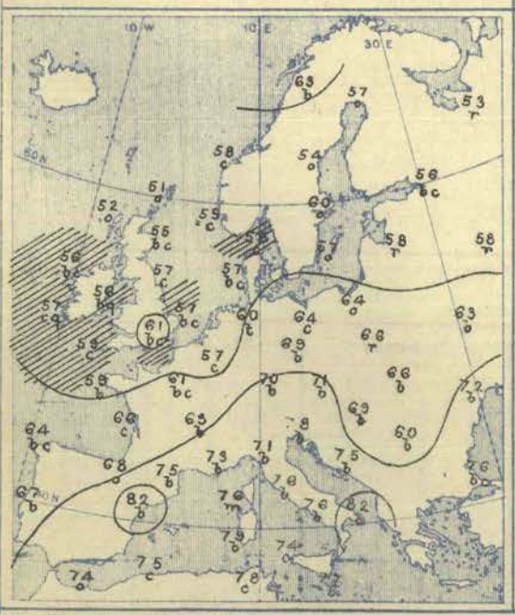
Wind very light and variable over the Mediterranean, and the south-western, southern, and eastern countries, Westerly to North-Westerly gales and strong winds prevalent over Ireland, England, and the Channel; South-Westerly in the Netherlands, and Southerly to South-Easterly in Norway; fresh from South-West and West over the Baltic. Wind moderating over the United Kingdom later, and backing towards South-West at the Irish stations, and backing Southwards in Sweden.

Barometer highest, 30·2 ins. and 30·0 ins. over south-western and southern Europe. Lowest, 29·0 ins. and less in a depression over the Shetlands and north of Scotland, 29·4 ins. and less over the north-east of Russia, and 29·9 ins. and less over the Black Sea and south-eastern Europe. Rising decidedly over the United Kingdom later, but falling slightly on the Continent.

Friday, 8th July.

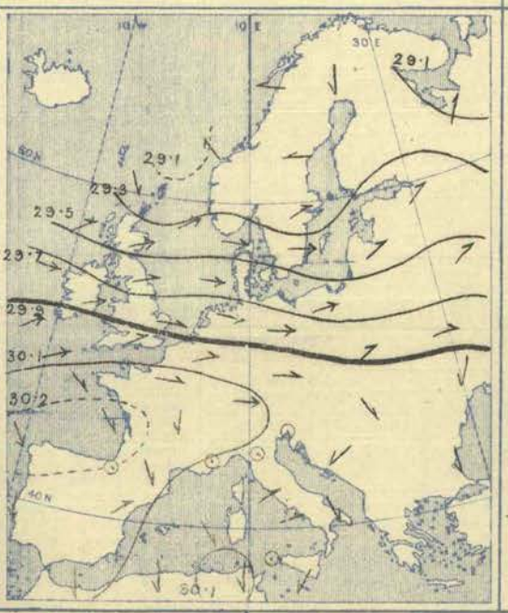
Temperature and Weather.

8 a.m.

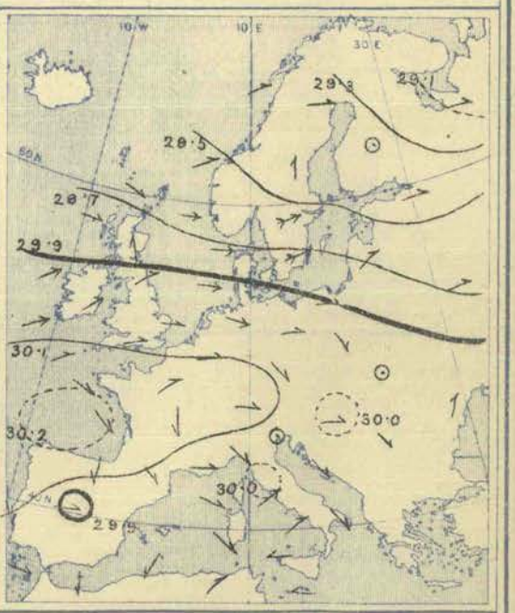


Barometer and Wind.

8 a.m.



6 p.m.



Weather remaining fine and bright over south-western, southern, and south-eastern Europe, as well as in many parts of the more northern countries, where, however, conditions were unstable, and the sky in many places overcast. Rain falling over northern Russia, showers in some parts of Ireland. Showers later at all the northern and our own western stations, and steady rain setting in over the south of Ireland, but weather remaining fine in the south and over France, and over central and eastern Europe.

Temperature risen considerably over central Europe, little changed elsewhere. Morning readings, 82° at Brindisi, and above 70° over southern Europe generally, below 60° over northern Europe and the greater part of our Islands, and as low as 51° at Sumburgh Head and Malin Head, 52° at Ardrossan, Nairn, and Stornoway, 53° at Wick and Archangel. Rising to 90° and more over southern Europe, to between 80° and 90° over several parts of France later, to 70° and more over Germany, and to between 60° and 69° over the greater part of our Islands and in Sweden.

Wind continuing light and variable over the southern and eastern parts of Europe, and also in the far north; fresh to strong from the Westward over the British Isles, the North Sea, and the Baltic; and moderate from South-East and East over the northern half of Norway. Moderating in our Islands later, but becoming strong from West-South-West on the Norwegian coast, and blowing a gale over the southern half of Sweden.

Barometer highest, 30·2 ins. and more to 30·6 ins. in anticyclone spreading in from the Atlantic over the whole of south-western, southern, and south-eastern Europe. Lowest, about 29·6 ins. over the White Sea, and about 29·1 ins. off the west of Norway. Rising over the United Kingdom and Scandinavia later, but rise ceasing in the west of Ireland towards midnight.

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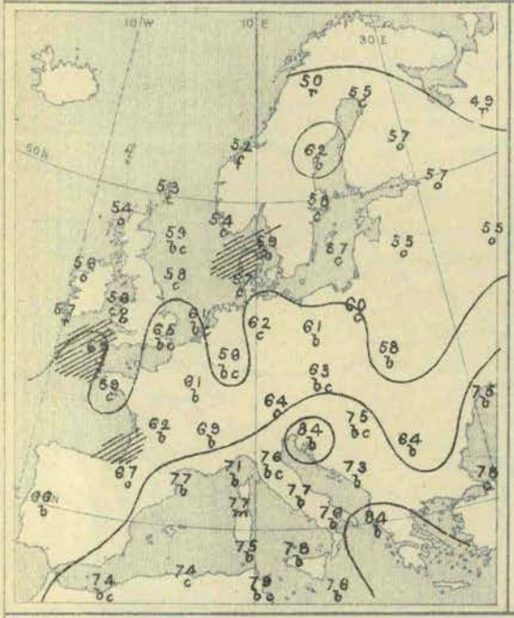
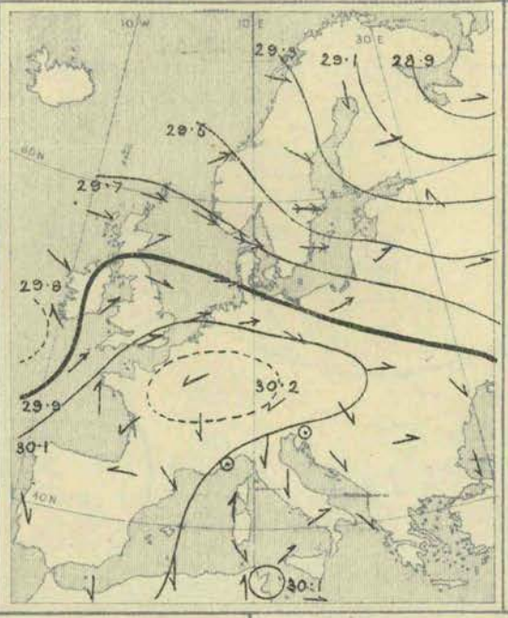
III.—SUMMARY OF WEATHER OVER EUROPE.

Saturday, 9th July.

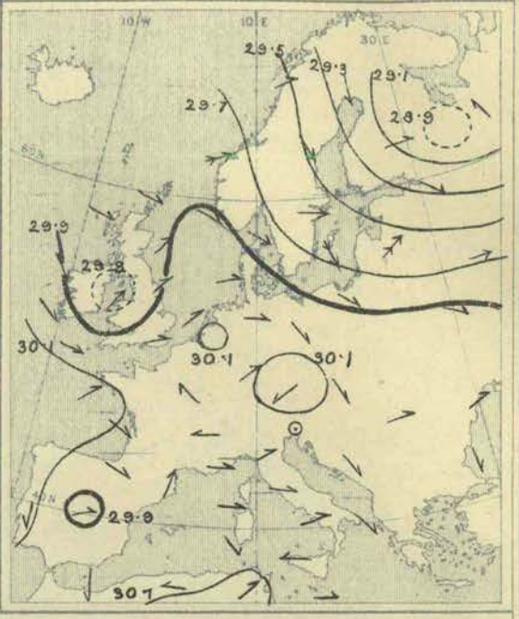
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over south-western, southern, and south-eastern Europe; changeable and unsettled in the north-west and north; overcast in many places, rainy in Ireland, as well as over Lapland, and the northern parts of Finland and Russia. Rain falling later over the greater part of the United Kingdom, and some showers in many parts of Russia; fall largest in Ireland, largest of all 0·9 in. at Donaghadee.

Temperature in morning exceeding 80° at Brindisi and Trieste only, but exceeding 70° over southern Europe generally, and exceeding 60° over eastern and central Europe, in London, and Hernösand; lower elsewhere, and as low as 49° at Archangel, 50° at Bodö, 52° at Sumburgh Head and Malin Head. Exceeding 110° over central Algeria later, exceeding 90° in many parts of Italy and Spain, and rising to between 80° and 90° in Austria and the south of France, but failing to reach 70° over our Islands, except at a few stations over the southern and eastern counties.

Wind light and variable over the Mediterranean, southern and south-eastern Europe; mainly Westerly over the more northern countries, and blowing very strongly over the Baltic; South-Westerly to Southerly over England, and Southerly to South-Easterly in Ireland. Shifting rather suddenly to North-West at our western stations later, and also over the western parts of the Mediterranean.

Barometer highest, 30·2 ins. and more to 30·0 ins. in an anticyclonic system covering south-western, southern, central, and south-eastern Europe. Lowest, 28·9 ins. in a large depression over the White Sea and northern Russia, and about 29·8 ins. in a small one lying to the south-westward of Valencia. Former disturbance growing deeper during day, latter moving quickly to east-north-eastward across Ireland, and reaching the Irish Sea by the evening. Local depression forming over central Spain at night.

GENERAL NOTES.

During this week pressure has remained highest (30·0 ins. to 30·2 ins. and more) over the southern half of Europe, but has been low in the north-west and north. Depressions have consequently passed from the Atlantic, over or near to our north-western coasts, and thence to northern Europe, the deepest and largest system being that of the 7th. Westerly to Southerly winds have consequently predominated in the last named region, and have occasionally veered as far round as North-West in some places in the rear of the disturbances; in force they have been strong, and on the 7th gales, of considerable strength for the time of year, were felt on almost all coasts. Large quantities of rain have fallen over Ireland and Scotland, and about the normal quantity over the eastern and southern parts of England. The more southern and eastern countries have been comparatively dry, but even there shallow local disturbances have caused some rather heavy local falls, accompanied by thunder and lightning. In our Islands the rain was heaviest with the disturbances of the 5th and 9th.

At the close of the week the depressions seemed to be taking a more easterly course, and their tracks lay further south than had been previously the case.

BRIGHT SUNSHINE Values for the Week in addition to those found on page 158.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	34·1	?	28	?	EASTBOURNE	64·0	?	57	?
OSWALDKIRK (Yorkshire)	42·8	?	37	?	TENBY	39·0 *	?	34 *	?
WORKSOP	38·6	+ 3·4	33	+ 2	NEWQUAY	41·7	?	37	?
THURCASTON (Leicestershire)	46·7	+10·2	40	+ 8	TORQUAY	45·4 *	?	41 *	?
MARGATE	60·5	?	54	?	ARLEY COTTAGE (County Cavan)	35.4	?	30	?
WESTBOURNE (Sussex)	61·1 *	?	54 *	?	GUERNSEY	76·0 *	?	68 *	?
BRIGHTON	52·3	?	46	?					

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each Day.	Of Lowest each Day.	For whole of each Day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
May 7th, 1892.	Strathfield Turgiss	67	25	54·5	34·5	43·9	−5·5	45	21	3	0·12	−0·29	—	—	—	—
" " "	Blackpool	57	34	52·8	38·5	45·7	−2·1	41	10	—	—	—	—	—	—	—
" " "	Llandudno	56	35	51·0	37·9	44·1	−5·4	32	11	2	0·62	+0·24	—	—	—	—
" " "	Brighton	—	—	—	—	—	—	—	—	—	—	—	44·3	—	43	—
" 14th, "	Churchstoke	68	32	64·0	38·5	50·8	+2·9	76	10	1	0·12	−0·36	61·2	+21·5	57	+ 18
" " "	Blackpool	67	33	61·1	42·4	51·2	+1·8	64	0	—	—	—	62.9	+18·4	58	+ 17
" " "	Llandudno	66	39	60·9	45·3	52·6	+2·3	74	0	3	0·31	−0·11	—	—	—	—
" " "	Killarney	67	34	61·7	42·5	52·4	+1·1	66	0	3	0·54	?	—	—	—	—
" 21st, "	Braemar	55	32	50·7	36·8	43·3	−2·8	30	15	—	—	—	—	—	—	—
" " "	Llandudno	58	52	55·5	46·0	50 5	−1.2	60	0	5	0·51	+0·09	—	—	—	—
" 28th, "	Llandudno	72	43	63·3	50·3	56·4	+3·5	101	0	6	0·88	+0·47	—	—	—	—
June 4th, "	Llandudno	70	48	63·5	51·8	57·3	+3·0	107	0	4	0·44	+0·03	—	—	—	—
" " "	Newquay	—	—	—	—	—	—	—	—	—	—	—	56 0	—	50	—
" 11th, "	Llandudno	74	49	69·2	52·8	60·4	+4·7	129	0	3	0·36	−0·14	—	—	—	—
" " "	Edgeworthstown	?	47	?	48·1	?	?	?	0	—	—	—	—	—	—	—
" 18th, "	Llandudno	58	45	56·1	46·3	50·9	−6·2	62	0	4	0·22	−0·19	—	—	—	—
" " "	Torquay	—	—	—	—	—	—	—	—	—	—	—	47·7	—	42	—
" 25th, "	Llandudno	67	42	61·5	47·8	54·1	−3·8	85	0	3	0·49	+0·06	—	—	—	—

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WEEKLY WEATHER REPORT.

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VOL. IX. No. 28.] *Third Series.* WEEK ENDING SATURDAY, 16TH JULY, 1892. [*Price 6d.* [*Annual subscription, post paid, £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years' observations (1871–90). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the ten years 1881-90. RAINFALL.—*The Mean amounts* are those for the corresponding periods in the twenty-five years 1866–90, but the *Mean numbers of Rainy Days* are those for the ten years 1881-90, only. BRIGHT SUNSHINE.—*The Mean values* employed are those for the corresponding periods in the ten years 1881–90.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 164.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1892. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	70	43	57·0	46·5	51·4	4 below.	66	−12	0	0	796	− 24	754	+212
	1. SCOTLAND, EAST -	68	37	58·4	46·7	52·1	5 below.	71	−29	0	0	967	−122	813	+241
	2. ENGLAND, N.E. - -	67	40	57·3	48·3	52·5	6 below.	74	−38	0	0	1067	− 53	681	+186
	3. ENGLAND, EAST -	69	45	62·2	51·1	56·3	4 below.	100	−25	0	0	1304	− 36	771	+210
	4. MIDLAND COUNTIES	70	41	61·6	49·6	55·2	5 below.	92	−28	0	0	1345	− 7	802	+250
	5. ENGLAND, SOUTH -	71	45	65·1	53·0	58·6	3 below.	116	−13	0	0	1404	− 51	554	+138
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	69	41	62·2	47·9	54·6	3 below.	88	−13	0	0	1056	− 65	610	+193
	7. ENGLAND, N.W. -	70	40	61·5	49·5	55·1	4 below.	92	−19	0	0	1163*	− 32	579	+165
	8. ENGLAND, S.W. -	72	41	64·8	51·6	57·7	1 below.	110	− 6	0	0	1348	− 12	433	+117
	9. IRELAND, NORTH -	68	38	62·2	50·4	55·9	2 below.	97	− 5	0	0	1172	− 57	484	+122
	10. IRELAND, SOUTH -	67	40	62·6	51·8	56.8	2 below.	104	− 9	0	0	1382	− 31	410	+132
	— CHANNEL ISLANDS -	77	50	66·9	55·7	60·9	0 (average)	132	+ 8	0	0	1540	+ 40	164	+ 42

Rainfall.

	DISTRICTS. (See p. 164.)	For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1892. Number of Rainy Days.	Difference from Mean.	Total Fall.	Difference from Mean.
			10ths of In.	10ths of In.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	3	1	7 less.	132	+ 5	22·2	− 1·4
	1. SCOTLAND, EAST -	2	1	6 less.	105	+ 2	12·9	− 2·2
	2. ENGLAND, N.E. - -	2	1	4 less.	105	+10	12·4	0·0
	3. ENGLAND, EAST -	4	10	4 more.	99	+ 6	11·6	− 0·9
	4. MIDLAND COUNTIES-	4	13	7 more.	91	− 1	11·6	− 2·3
	5. ENGLAND, SOUTH -	4	9	4 more.	76	−14	8·8	− 4·6
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	0	0	9 less.	102	− 7	20·1	− 4·2
	7. ENGLAND, N.W. - -	2	6	1 less.	104	+ 5	15·9	+ 0·1
	8. ENGLAND, S.W. - -	5	14	7 more.	94	− 8	13·1	− 6·1
	9. IRELAND, NORTH -	1	2	6 less.	110	− 7	17·5	− 0·1
	10. IRELAND, SOUTH -	4	13	6 more.	101	− 7	18·0	− 1·5
	— CHANNEL ISLANDS -	4	9	3 more.	98	−12	13·2	− 2·3

Bright Sunshine.

	DISTRICTS. (See p. 164.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1892. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	38	−11	32	− 8	754	+ 24	29	0
	1. SCOTLAND, EAST -	22	−19	19	−18	854	+ 27	33	0
	2. ENGLAND, N.E. - -	16	−23	14	−18	831	+ 82	33	+ 3
	3. ENGLAND, EAST -	17	−26	15	−23	952	+ 53	38	+ 2
	4. MIDLAND COUNTIES-	9	−31	8	−27	903	+108	36	+ 4
	5. ENGLAND, SOUTH -	31	−17	27	−17	1046	+192	41	+ 7
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	38	− 1	33	− 1	888	+ 75	35	+ 3
	7. ENGLAND, N.W. - -	23	−15	20	−14	911	+106	38	+ 4
	8. ENGLAND, S.W. - -	39	− 9	35	− 8	1050	+109	42	+ 5
	9. IRELAND, NORTH -	27	− 3	24	− 2	828	+ 64	32	+ 2
	10. IRELAND, SOUTH -	23	−14	20	−11	908	+ 36	36	+ 1
	— CHANNEL ISLANDS -	60	+ 8	55	+ 7	1226	+138	49	+ 5

Bright Sunshine.—For several of the stations there are no "mean" values available, and the "difference from the mean" in some of the districts is consequently that of only a few of the stations.

General Remarks.

Weather was cool, changeable, and unsettled, especially in the more southern districts, where heavy falls of rain were reported, with occasional thunderstorms.

Temperature was below the mean in all districts excepting the Channel Islands, the deficit being small (1° to 2°) in Ireland and the south-west of England, but large (4° to 6°) in the eastern and central parts of England. The highest readings, which were registered at varying times in the different districts, were below 70° in the eastern parts of Great Britain and also in Scotland W., and very little above it even in the extreme south of the Kingdom. As a rule the daily maxima over our northern and eastern districts were below 60°. In the Channel Islands, however (at Jersey), the thermometer on the 11th rose to 77°. The lowest readings, which also occurred on various dates, were very little above 40° in any district excepting England E., England S., and the Channel Islands, and were as low as 37° in Scotland E., and 38° in Ireland N.

Rainfall was considerably less than the mean in all the northern districts, and entirely absent in Scotland W. Over the eastern, central, and southern parts of the Kingdom, however, there was a considerable excess, the amount being in many cases more than double the mean for the week.

Bright Sunshine was more prevalent than it was last week in the north and west of Scotland, but decidedly less abundant elsewhere. The percentage of the possible duration ranged from only 8 in the Midland Counties, and 14 in England N.E., and 15 in England E., to 32 in Scotland N., 33 in Scotland W., 35 in England S.W., and to as much as 55 in the Channel Islands.

Barometer and Wind.—During the greater part of the week barometrical pressure was high both to the northward and southward of our Islands, and while cyclonic systems of considerable energy spread over our southern districts from the westward, other and shallower disturbances were developed over France and the south-eastern parts of England. The winds were mostly from some Easterly point (South-East to North-East), but at times great variability was shown. On the 11th a moderate to strong gale from the South-Eastward was experienced on our extreme south-west coasts.

* This value has been altered owing to the receipt of further information.

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II.—DATA from which the SUMMARY on page 163 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head ⚓	58	43	53·6	46·3	49·7	− 2·7	54	0	2	0·02	−0·48	*	*	*	*
	Stornoway ⚓	63	43	55·6	46·7	50·8	− 3·5	62	0	2	0·03	−0·66	23·0	−10·6	19	− 8
	Wick ⚓	59	45	54·1	47·6	50·6	− 4·3	60	0	6	0·26	−0·25	*	*	*	*
	Lairg ⚓	62	43	56·4	45·6	50·6	− 4·7	60	0	5	0·06	−0·60	*	*	*	*
	Glencarron ⚓	65	44	58·6	46·5	52·1	− 2·4	71	0	1	0·02	−1·35	*	*	*	*
	Fort Augustus ⚓	66	44	58·5	46·9	52·3	− 4·2	72	0	2	0·02	−0·68	28·1	?	24	?
	Fort William ⚓	70	43	62·4	46·1	53·7	− 3·0	82	0	0	—	−1·19	62·7	?	53	?
1. SCOTLAND, E.	Nairn ⚓	68	43	58·1	46·4	51·8	− 5·5	69	0	4	0·12	−0·43	*	*	*	*
	Aberdeen ⚓	61	45	56·0	48·6	52·0	− 4·9	70	0	3	0·04	−0·56	17·5	−21·7	15	−18
	Braemar ⚓	64	40	55·9	45·2	50·2	− 4·3	57	0	1	0·06	−0·60	19·2†	?†	16†	?†
	Ochtertyre ⚓	68	37	63·4	45·9	54·0	− 3·0	84	0	0	—	−0·75	*	*	*	*
	Leith ⚓	65	46	59·1	47·9	53·1	− 5·5	78	0	1	0·01	−0·62	*	*	*	*
	Marchmont ⚓	65	44	57·6	46·3	51·6	− 5·2	67	0	2	0·10	−0·68	30·3	?	26	?
2. ENGLAND, N.E.	Alnwick Castle	61	42	55·9	47·1	51·2	− 5·9	64	0	3	0·07	−0·57	*	*	*	*
	Durham	66	40	58·1	46·9	52·1	− 6·7	71	0	3	0·11	−0·54	18·2	−18·3	16	−16
	Shields	62	44	56·3	47·6	51·7	− 6·0	68	0	2	0·05	−0·53	*	*	*	*
	Scarborough ⚓	60	45	56·7	47·9	52·0	− 6·9	70	0	1	0·01	−0.61	*	*	*	*
	York	67	44	59·6	49·0	53·9	− 5·7	83	0	1	0·15	−0·45	12·3	−24·5	11	−21
	Spurn Head	61	49	57·0	51·0	53·8	− 5·9	83	0	3	0·44	+0·05	*	*	*	*
3. ENGLAND, E.	Hillington ⚓	69	45	61·8	49·6	55·3	− 5·1	93	0	4	1·37	+0·71	16·7	−26·3	15	−24
	Yarmouth	67	51	61·1	54·0	57·3	− 3·0	107	0	4	0·59	−0·04	*	*	*	*
	Geldeston	68	49	61·3	51·4	56·0	− 4·4	98	0	3	0·68	+0·18	28·4	−18·4	25	−17
	Cambridge	69	45	64·0	50·3	56·7	− 4·7	103	0	5	1·66	+1·11	12·8	−31·0	11	−28
	Rothamsted	68	49	62·9	50·1	56·1	− 4·0	99	0	3	0·88	+0·25	10·6	?	9	?
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	69	46	59·9	48·0	53·5	− 6·7	81	0	4	0·96	+0·34	*	*	*	*
	Loughborough	68	48	61·6	50·4	55·6	− 5·8	95	0	3	1·09	+0·57	*	*	*	*
	Stamford (Ketton Hall)	68	45	61·6	50·0	55·4	− 5·9	94	0	4	1·28	+0·68	*	*	*	*
	Cheadle ⚓	64	41	59·8	47·9	53·4	− 4·4	80	0	4	1·23	+0·53	*	*	*	*
	Churchstoke ⚓	68	42	61·0	47·5	53·8	− 4·1	83	0	4	1·22	+0·64	12·5	−27·1	11	−24
	Hereford ⚓	70	49	63·5	51·2	56·9	− 3·4	104	0	4	1·91	+1·37	*	*	*	*
	Cirencester	67	49	62·0	50·7	56·0	− 3·2	98	0	4	1·67	+0·99	10·7	−30·6	9	−28
	Oxford	67	49	63·0	51·1	56·6	− 4·0	102	0	3	1·15	+0·57	9·6	−33·0	8	−30
5. ENGLAND, S.	London	70	51	65·0	52·4	58·3	− 4·1	114	0	3	0·31	−0·22	10·0†	−29·2†	9†	−27†
	North Foreland	67	51	61·9	54·0	57·7	− 2·8	110	0	4	0·61	?	*	*	*	*
	Strathfield Turgiss ⚓	71	45	64·8	49·6	56·7	− 4·5	103	0	4	1·14	+0·61	*	*	*	*
	Dungeness	68	52	64·6	54·7	59·3	− 2·0	121	0	3	0·19	−0·23	*	*	*	*
	Hastings (St. Leonards)	70	51	65·2	53·2	58·8	− 2·4	118	0	3	0·43	−0·06	39·5	−10·6	35	−10
	Southampton	71	49	67·4	53·0	59·7	− 1·9	124	0	3	1·39	+0·82	29·7	−16·5	27	−15
	Hurst Castle	69	53	66·3	55·3	60·4	− 0·8	129	0	5	1·44	+0·94	*	*	*	*
	Stowell ⚓	71	47	65·6	51·5	58·0	− 2·0	112	0	4	1·35	?	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	69	45	64·8	48·0	55·8	− 1·1	97	0	0	—	−1·25	*	*	*	*
	Glasgow	68	46	61·4	48·4	54·5	− 2·8	88	0	0	—	−0·80	30·1	−1·1	26	− 1
	Ardrossan	67	47	62·0	49·6	55·4	− 2·4	94	0	0	—	−0·65	*	*	*	*
	Glenlee ⚓	68	41	62·1	44·9	52·9	− 3·6	76	0	0	—	−0·95	*	*	*	*
	Douglas (Isle of Man)	64	41	60·9	48·4	54·2	− 3·0	85	0	0	—	−0·68	45·6	+ 0·6	40	0
7. ENGLAND, N.W.	Newton Reigny	65	40	59·6	45·9	52·2	− 5·1	71	0	1	0·07	−0·62	21·5	−17·3	19	−14
	Stonyhurst	69	48	61·5	49·2	54·9	− 3·6	90	0	1	0·17	−0·84	18·8	−19·2	16	−17
	Blackpool ⚓															
	Manchester	67	48	62·0	49·0	55·1	− 3·4	92	0	2	1·02	+0·17	*	*	*	*
	Liverpool Obsy. (Bidston)	67	40	62·3	49·7	55·6	− 4·1	95	0	2	0·74	+0·09	*	*	*	*
	Llandudno ⚓	67	50	62·5	51·3	56·8	− 3·0	104	0	2	1·03	+0·46	29·6	− 7·8	26	− 7
	Holyhead	70	50	61·3	51·4	56·0	− 2·8	98	0	3	0·78	+0·25	*	*	*	*
8. ENGLAND, S.W.	Llandovery	72	41	67·1	48·4	57·1	− 2·3	106	0	5	0·69	−0·19	*	*	*	*
	Pembroke	67	51	62·1	52·3	56·9	− 1·4	104	0	5	1·66	+1·11	31·9	−14·3	28	−13
	Arlington (N. Devon)	68	44	64·7	50·0	56·8	− 1·5	104	0	4	1·08	+0·02	*	*	*	*
	Cullompton ⚓	70	43	66·7	51·3	58·5	− 1·1	116	0	5	2·23	+1·58	29·5	−10·9	26	−10
	Falmouth	68	49	65·8	54·4	59·7	+ 0·2	124	0	5	2·03	+1·32	44·8	− 3·6	41	− 2
	Plymouth															
	Prawle Point	64	48	62·4	52·9	57·3	− 1·5	107	0	5	0·80	+0·30	*	*	*	*
9. IRELAND, N.	Malin Head	62	50	59·4	52·0	55·4	− 1·7	94	0	0	—	?	*	*		*
	Londonderry	?	44	?	49·1	?	?	?	?	0	—	−0·78	*	*	*	*
	Edenfel (Omagh)	68	42	64.6	48·6	56·0	− 1·6	98	0	1	0·01	−0·74	*	*	*	*
	Mullaghmore	65	50	61·9	52·4	56·8	− 1·4	104	0	0	—	−0·83	*	*	*	*
	Belmullet	68	47	62·9	50·6	56·3	− 1·2	100	0	3	0·40	?	*	*	*	*
	Markree Castle	67	38	63·0	48·9	55·5	− 1·0	95	0	2	0·07	−0·70	26·9	− 2·4	23	− 3
	Brookeborough	66	39	63·2	49·5	55·9	− 1·1	97	0	0	—	−0·78	*	*	*	*
	Armagh	65	43	62·4	48·3	54·9	− 2·9	90	0	0	—	−0·70	29·6	− 2·4	26	− 2
	Donaghadee	62	50	60·1	53·0	56·3	− 0·9	100	0	0	—	−0·59	*	*	*	*
	Edgeworthstown	?	40	?	48·3	?	?	?	?	2	0·97	+0·17	*	*	*	*
10. IRELAND, S.	Dublin	63	47	60·1	51·1	55·3	− 4·6	93	0	3	0·96	+0·43	18·2	−18·5	16	−16
	Parsonstown	67	41	62·9	51·1	56·6	− 1·8	102	0	3	1·23	+0·57	16·8	−17·2	15	−15
	Kilkenny	66	40	61·7	51·0	56·0	− 2·5	98	0	4	1·34	+0·78	*	*	*	*
	Waterford	65	45	62·5	51·9	56·8	− 2·6	104	0	4	1·53	+0·87	*	*	*	*
	Roche's Point	65	48	62·1	53·1	57·3	− 2·4	107	0	4	1·22	+0·48	*	*	*	*
	Valencia	67	46	63·7	52·6	57·8	− 0·7	111	0	5	2·36	+1·48	33·8	− 2·7	30	− 2
	Killarney	67	42	63·9	50·8	56·9	− 1·3	104	0	5	0·76	?	*	*	*	*
	Foynes	64	47	63·7	52·5	57·7	− 0·7	110	0	3	0·45	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	68	53	65·1	55·4	59·9	+ 0·1	125	0	4	0·60	+0·06	*	*	*	*
	Jersey	77	59	68·6	56·0	61·9	+ 0·2	139	0	3	1.12	+0·59	60·0	+ 8·1	55	+ 7

Stations marked ⚓ are in connection with the Royal Meteorological Society, and those marked ⚓ with the Scottish Meteorological Society.

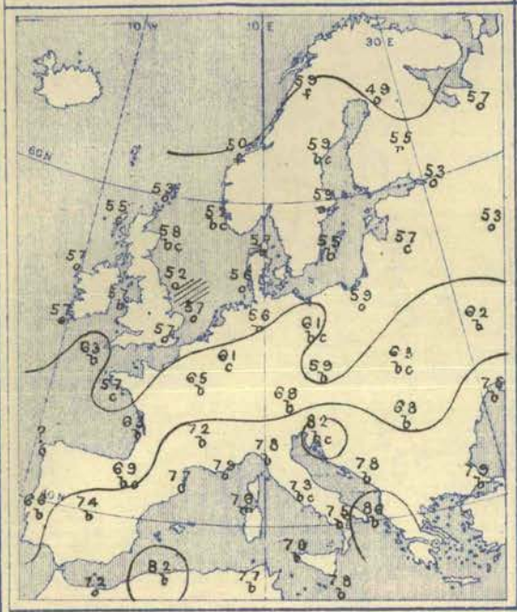
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory and the Meteorological Office, Victoria Street. For additional Reports of Sunshine see last page. NOTE.—It will be observed that Edenfel (Omagh) has been added to the list of stations in "Ireland, N."

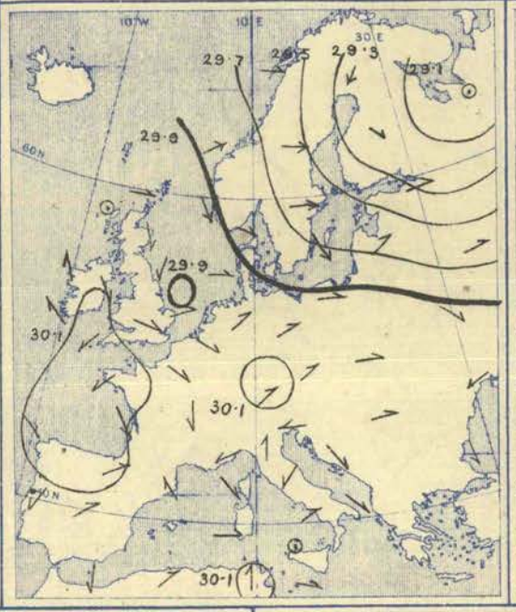
III.—SUMMARY OF WEATHER OVER EUROPE.

Sunday, 10th July.

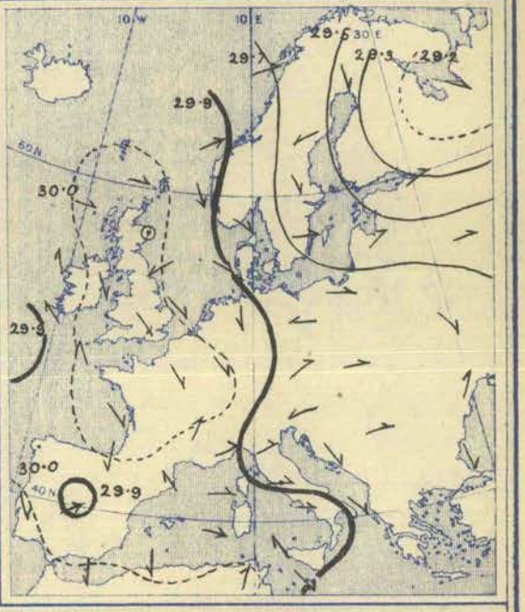
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning remaining fine and bright over the southern half of Europe, fair, but not settled over the British Islands, cloudy and unsettled over northern Europe. Local rains in various districts later, and a thunderstorm at Lyons.

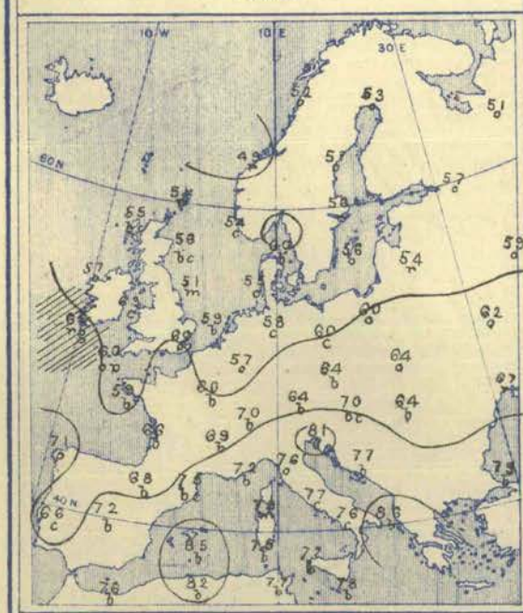
Temperature still above 70° at all the southern stations, 82° at Algiers, 86° at Brindisi, above 60° over the greater part of central Europe, lower in the north-west and north. Lowest of all, 49° at Ulealborg, 50° at Bodö and Christiansund, 52° at Skudesnaes, 53° at Sumburgh Head and St. Petersburg. Rising later to 80° and more over Germany, and to 90° and more in central Spain and the southern parts of France and Italy; not exceeding 67° in any part of our Islands, and failing to reach 60° in the west of Norway, the Shetlands, the Hebrides, and the extreme north of Ireland.

Wind light and extremely variable over southern, central, and eastern countries; Northerly and North-Westerly over Scandinavia, Westerly over the Baltic and north Germany, Northerly to Westerly over England and the Channel, South-Westerly in Holland, Southerly to South-Easterly in the west of Ireland. The South-Easterly wind freshening in Ireland later, the North-Westerly wind over England dying down; very little change occurring elsewhere.

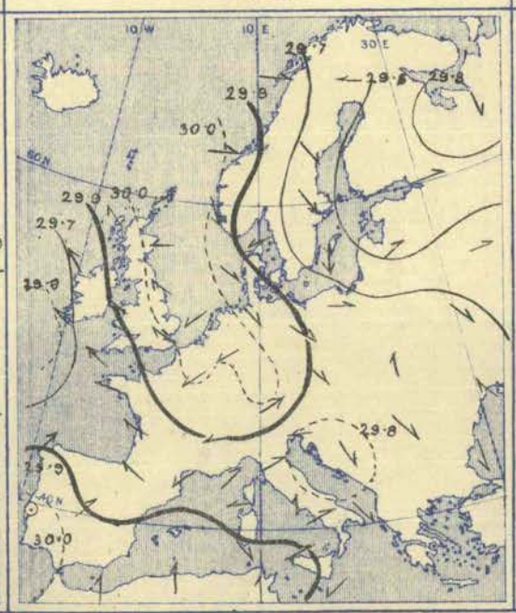
Barometer highest, 30·1 ins. and more to 30·0 ins. over Algeria, south-western, western, and central Europe, and the greater part of the British Islands. Lowest, 29·1 ins. and less to 29·2 ins. over Finland and the north of Russia, and about 29·9 ins. in a local disturbance off our east coast, and also 30·0 ins. over Italy and the south-east of Europe. Falling rather decidedly in Ireland later, rising slightly over the North Sea; local depression off the east coast of England filling up.

Monday, 11th July.

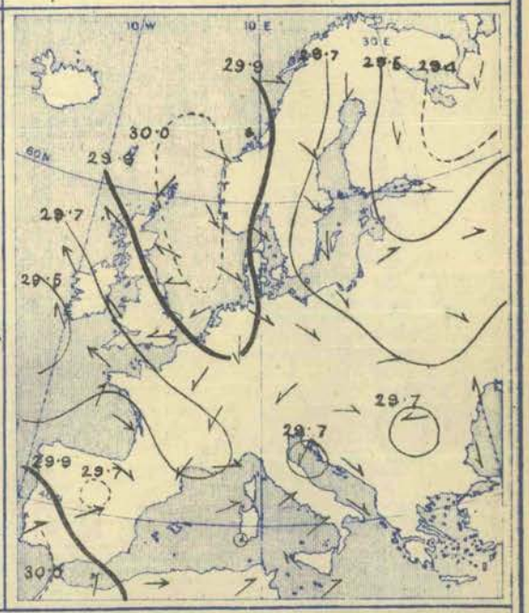
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fine and bright over south-western, southern, and a great deal of south-eastern Europe; cloudy, variable, and unsettled in the north-west and north, and also over the south of Russia; rain in several parts of Ireland, at some Scandinavian stations, and on the northern shores of the Black Sea. Rain during day on our south-west coasts and in France; fall heavy (1·7 ins.) at Valencia, considerable at Brest and Holyhead. Thunderstorms over France and the western part of the English Channel.

Temperature changing little and irregularly; ranging from between 80° and 86° at many of the Mediterranean and Adriatic stations, and 70° or more in the south of France, to less than 60° over the greater part of our Islands and the northern countries of Europe, and to 49° at Christiansund, 51° at Shields, Leith, and Sumburgh Head, and at Archangel. Rising later to between 80° and 90° over the greater part of southern Europe, to 77° at Prawle Point, and to 70° and more over Germany; failing to reach 70° over the British Isles as a whole, but just touching 70° at Holyhead, 69° at Cambridge, and 68° in several other places.

Wind very variable. (1) Easterly at Haparanda. Northerly over Scandinavia (a gale at Wisby). North-Westerly over Denmark, Westerly over north Germany and the Baltic Provinces; (2) anti-cyclone over the North Sea; (3) Easterly to South-Easterly in the British Isles and the north of France—light in the east, fresh to very strong in the west; South-Westerly over Spain. Very variable in direction, and light in force, over the more southern countries. Increasing in strength from East and South-East over Ireland later, and becoming fresh from the Westward over the Bay of Biscay; violent sirocco blowing in Algeria.

Barometer highest, 30·0 ins. and more to 29·8 ins. over the Iberian Peninsula and Algeria, 30·0 ins. and more over the North Sea and the eastern half of Great Britain, the Netherlands, and western Germany. Lowest, 29·3 ins. and less over the northern parts of Russia, 29·6 ins. and less off our western coasts, 29·8 ins. and less over the Bay of Biscay, and also over the northern parts of the Adriatic and Dalmatia, 29·6 ins. and less in a small well marked depression near Kharkov. Falling over western Europe and the British Isles during day; low pressure system off our west coasts spreading eastwards.

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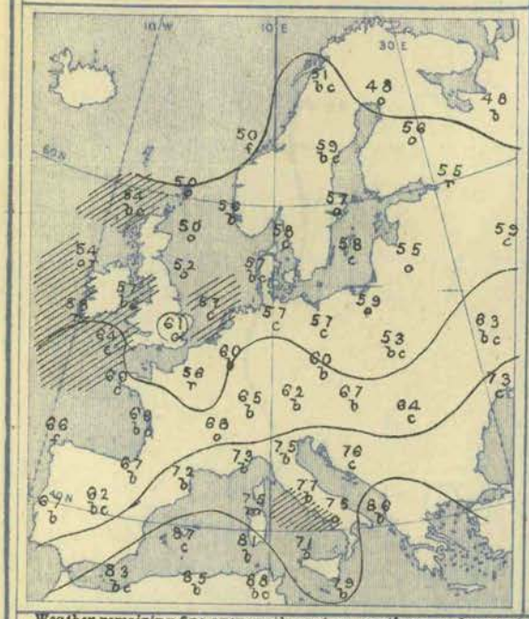
III.—SUMMARY OF WEATHER OVER EUROPE.

Tuesday, 12th July.

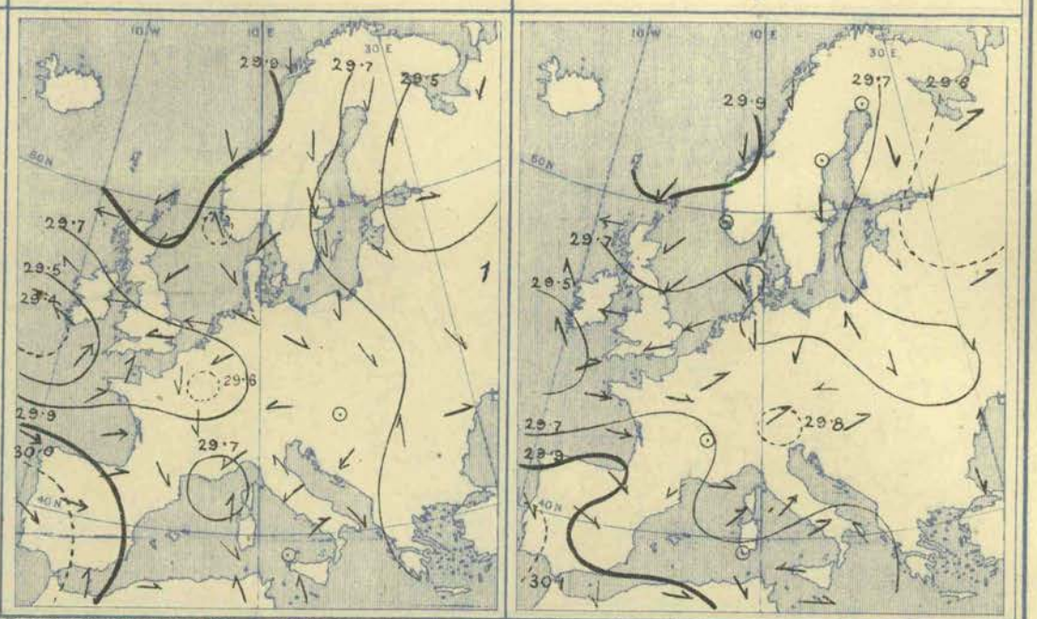
Temperature and Weather. 8 a.m.



Weather remaining fine over south-western, southern, and central Europe; cloudy and unsettled elsewhere, with rain both at the Irish stations, and over the northern parts of Russia. Rain falling later over western Europe generally, showers in Scotland and the north of England; largest falls reported, 0·8 in. at Oxford, 0·7 in. at Biarritz, 0·6 in. at Paris and Hurst Castle. Thunderstorms occurring in some parts of Germany, and thunder heard at Jersey.

Temperature falling in most parts of Europe, rising decidedly over Algeria. Morning readings, 80° to 88° on the southern side of the Mediterranean, and exceeding 70° over southern Europe generally. Below 60° over the northern half of Europe, and as low as 48° at Archangel and Haparanda, 50° at Christiansund and Sumburgh Head, 51° at Nairn, 52° at Shields. Rising later to between 70° and 77° over France, to between 60° and 69° over Denmark and the southern half of our Islands, but failing to reach 55° in the north and east of Scotland; exceeding 80° in Spain and the south of France, and exceeding 90° at many of the Italian stations.

Barometer and Wind. 8 a.m. and 6 p.m.

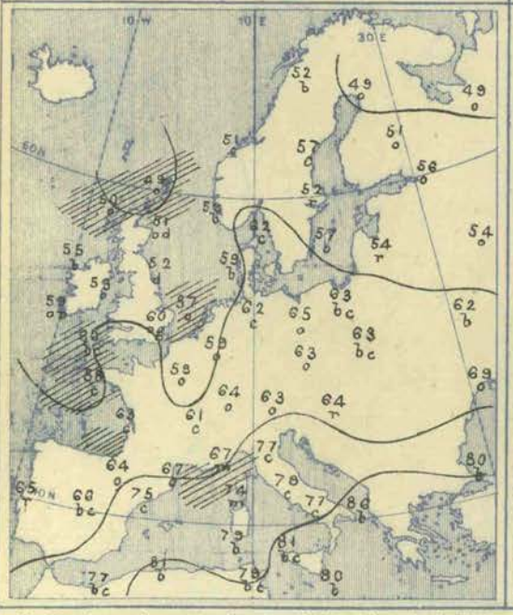


Wind light to moderate and very variable over the south-eastern and southern countries; moderate to strong from West over the Bay of Biscay, from South-West and South in the north of France, from East and South-East over the United Kingdom; Northerly over Scandinavia and the Baltic, North-Westerly to Westerly over Holstein and north Germany, Southerly (very light) over central Russia. The Westerly wind spreading to the north of France and the mouth of Channel later; no important change occurring elsewhere.

Barometer highest 30·0 ins. and more to 29·8 ins. over the Spanish Peninsula and Algeria, 29·9 ins. and more over the north-east of Scotland and the west of Norway, and exceeding 29·6 ins. over the North Sea and central Germany. Lowest, 29·4 ins. and less in a depression lying off the south-west of Ireland, and about 29·6 ins. in a secondary system near Paris, 29·5 ins. and less over Finland and the north of Russia, and below 29·7 ins. both over the Black Sea, and in Corsica, and the Gulf of Genoa. The depression in the south-west moving northwards very slowly during day, and apparently decreasing in intensity; secondary disturbance over France advancing northwards over the south-east of England.

Wednesday, 13th July.

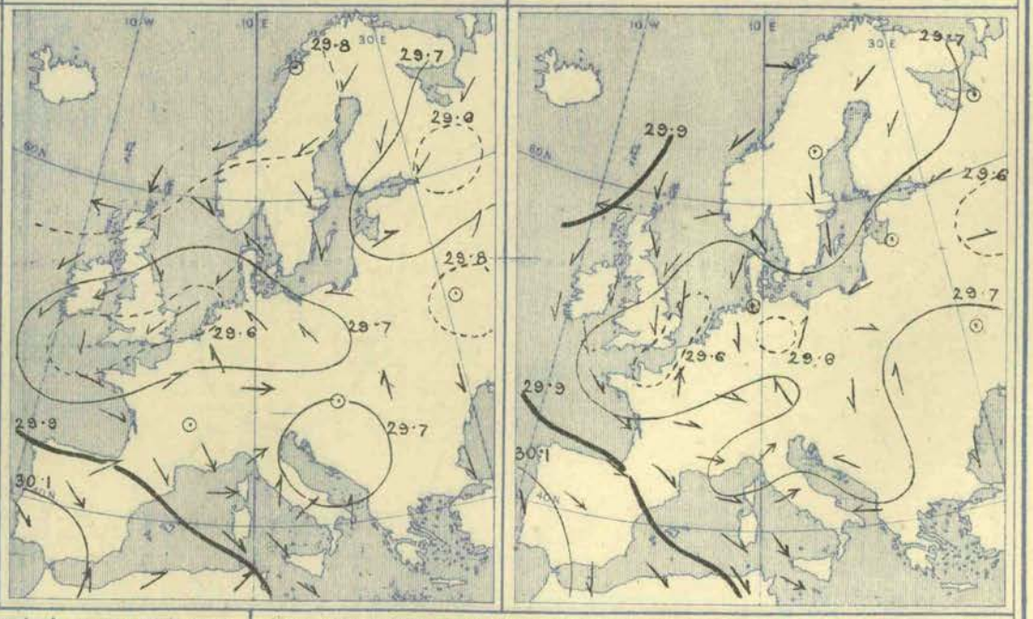
Temperature and Weather. 8 a.m.



Weather in morning more or less unsettled in all parts of Europe; cloudy or overcast in many places, rainy in several parts of British Islands and north France, south Germany, the Baltic Provinces, Sweden, and Finland; thunder in some parts of Surrey. Rain falling later in many parts of France, England, Germany, and the south of Finland—0·7 in. at Cuxhaven, 0·5 in. at the North Foreland and Cambridge, and still more heavily over France (2 ins. at Nancy); thunder and lightning over France and our south-eastern counties.

Temperature fallen again over Algeria, low generally over north-western Europe for the time of year. Morning readings, 80° or more over Algiers and several of the Italian stations; above 60° over all the southern, central, and south-eastern countries; lower elsewhere. Lowest of all, 48° at Archangel, Haparanda, Sumburgh Head, Nairn, and Loughborough, 51° at Aberdeen, 52° at Shields and Spurn Head. Touching 100° in some parts of Algeria later, 85° to 95° in Italy, but only 67° at Valencia and Prawle Point, falling to reach 60° on our northern and eastern coasts.

Barometer and Wind. 8 a.m. and 6 p.m.



Wind moderate from between North and East over Scandinavia and the greater part of the British Islands and the North Sea, South-Westerly to Westerly over France; North-Westerly over Spain, South-Westerly to Southerly over Italy. Becoming Southerly at Paris later, but shifting to between West and North over the English Channel; blowing hard from West at Nice, and strongly from South-West in the north of Italy.

Barometer highest, (1) 30·1 ins. and more to 29·9 ins. over Spain and northern Africa; (2) 29·8 ins. and more over the northern parts of Scandinavia and Scotland. Lowest, 29·6 ins. and less in a complex depression lying over the Channel, the southern counties of England, and part of Holland, and below 29·7 ins. over the northern half of Russia, as well as over the Adriatic, Dalmatia, and part of Austria. Rising somewhat irregularly in our Islands later, the depression in the south-east moving eastward, but another one forming over the Gulf of Genoa.

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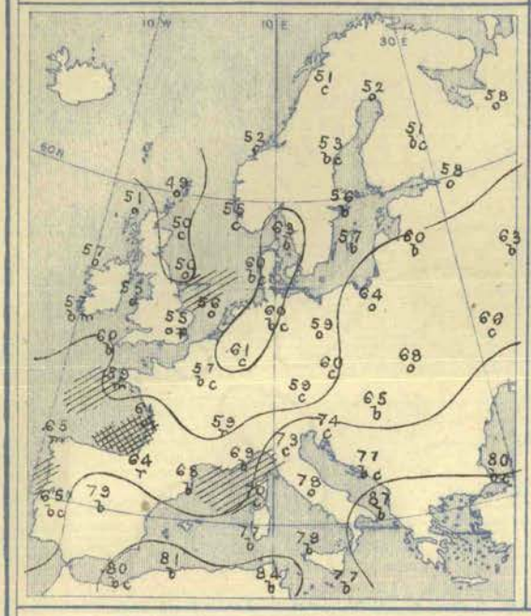
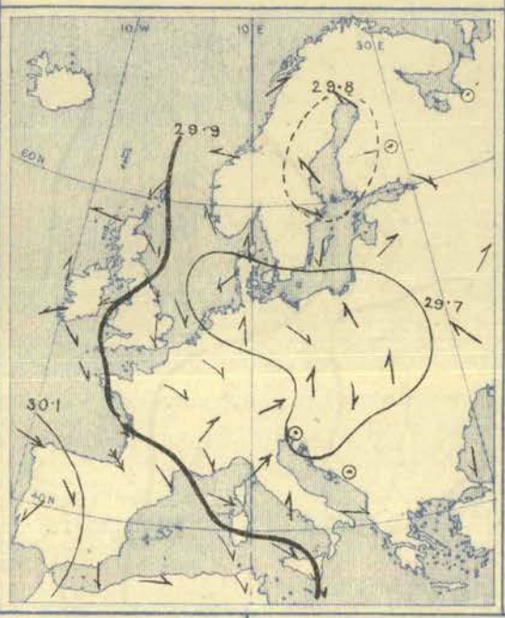
III.—SUMMARY OF WEATHER OVER EUROPE.

Thursday, 14th July.

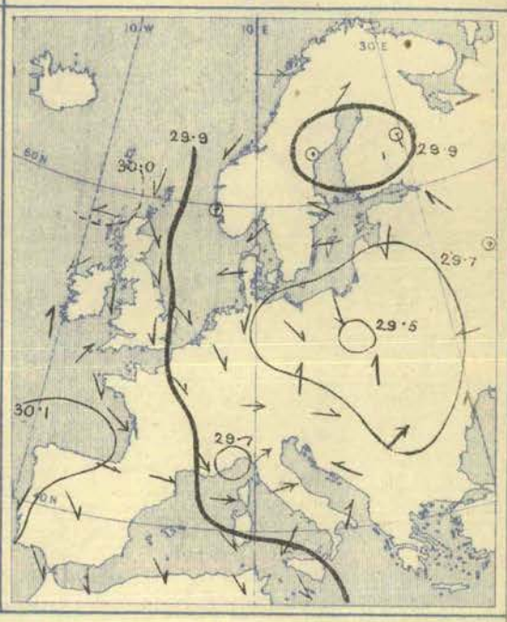
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over Spain, the Mediterranean, south-eastern and central Russia, and many parts of Sweden; cloudy and unsettled over Europe as a whole, with rain in many parts of Germany and the eastern parts of England. Rain falling later in the districts already named, but in small quantities; a heavy fall at several stations over the southern half of France, accompanied by thunder and lightning.

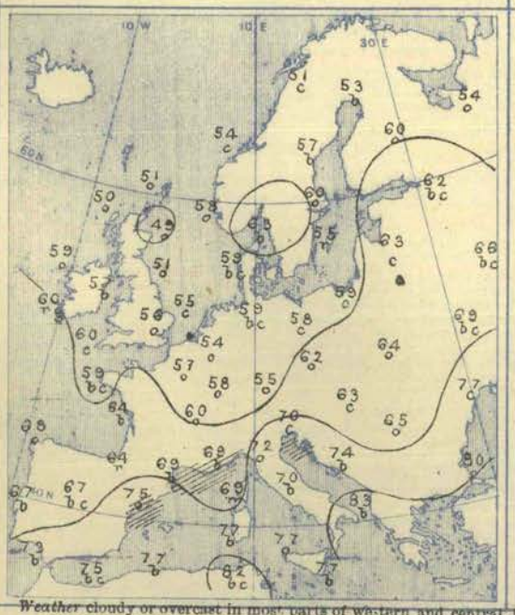
Temperature still low over the north-western and northern countries, the morning readings being below 60° in most places; somewhat higher values over Germany and France, and highest of all, 70° and 87° at the Mediterranean stations. Rising later to considerably above 100° over central Algeria, to 90° and more in the south of Italy, to 80° and more at some of the southern French stations, but failing to reach 70° in our Islands, and not reaching 60° on our northern and eastern coasts.

Wind variable; mainly North-Easterly in the north of Scotland, Northerly to North-Westerly over England, North-Westerly over France, Westerly (strong) over the Mediterranean, extremely variable over the Baltic and central Europe. Becoming very strong over the south of France, north of Italy, and Gulf of Genoa later, and freshening a little from the Westward over France as a whole.

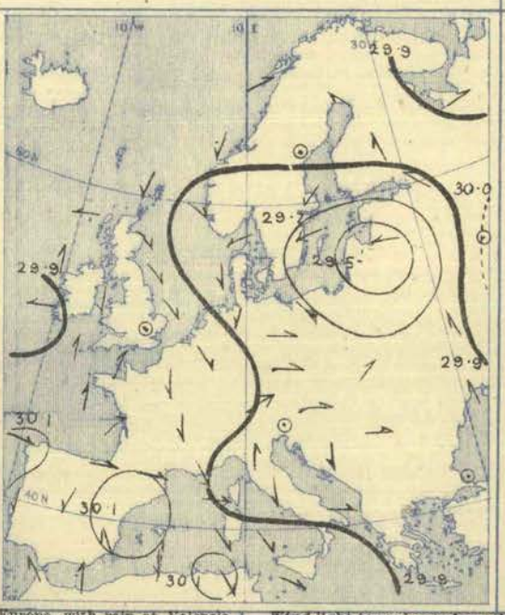
Barometer highest, 30·1 ins. and more over Portugal, and exceeding 29·9 ins. over south-western Europe generally, as well as over Ireland and Scotland; 29·8 ins. to 29·9 ins. and more over Russia. Lowest, 29·7 ins. and less in a shallow depression over Austria, Germany, and the south-eastern half of the North Sea, and also over the Riviera. Rising in our Islands all day, falling over Germany. The two low pressure areas just named growing deeper.

Friday, 15th July.

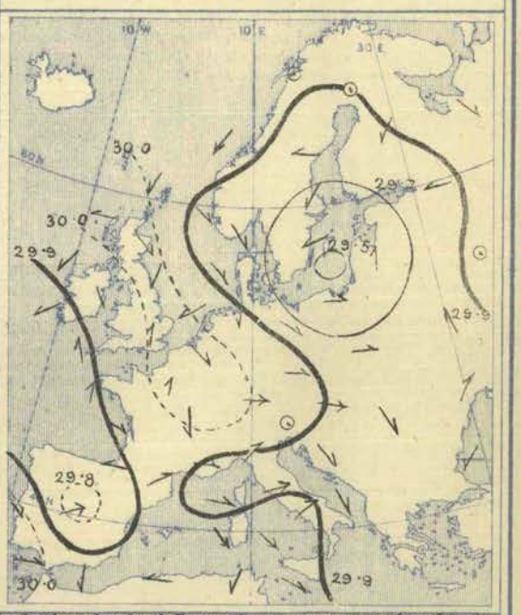
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather cloudy or overcast in most parts of western and central Europe, with rain at Valencia Island and Biarritz; fine and bright over Spain, Italy, and Algeria, as well as at most of the Scandinavian, Danish, and Russian stations, but dull over the Baltic, with rain at Wisby. Heavy rain falling later in the west of our Islands and the north-west of France, the largest amounts being 1·1 ins. at Roche's Point, 1·0 in. at Brest, and 0·7 in. at Holyhead; showers ring at Biarritz.

Temperature highest, 83° at Brindisi, 82° at La Calle, 80° at Constantinople, and 77° at Cagliari, Algiers, and Malta, above 70° over Italy, the Adriatic, and Mediterranean generally, and above 65° over central Russia. Lowest, 49° at Aberdeen, 50° at Stornoway and Nairn, and 51° at Bodö, Sumburgh Head, and Shields; below 55° in all the more northern parts of Great Britain, and also over the northern parts of Russia and Scandinavia. Daily maxima over our Islands higher than on the previous day, but thermometer exceeding 65° at the south coast stations only, and remaining below 60° in the northern and north-eastern districts. Rising to between 80° and 90° at most of the Spanish and Italian stations, and reaching 92° at Madrid.

Wind light to moderate from the Southward or South-Eastward on the west coasts of our Islands and France; light from the North-Westward over the North Sea and adjacent coasts, with the Netherlands and north Germany; moderate from the Westward over eastern and southern Germany, South-Westerly in Poland; Easterly over Finland and the south of Sweden; light and variable over Spain, Italy, and Algeria, but North-Westerly over the central parts of the Mediterranean. No important change occurring during day.

Barometer highest, 30·00 ins. to 30·15 ins. in a large anticyclone lying over France, Spain, and the western parts of the Mediterranean, and extending northwards in the form of a ridge over the eastern and northern parts of Great Britain. Lowest, 29·5 ins. and less in a well marked depression lying over the Baltic Provinces, 29·9 ins. and less in a shallow system lying off the south-west of Ireland. Former disturbance subsequently moving slowly northwards, latter system spreading eastward; secondary depressions appearing over the Bay of Biscay and the north of Spain.

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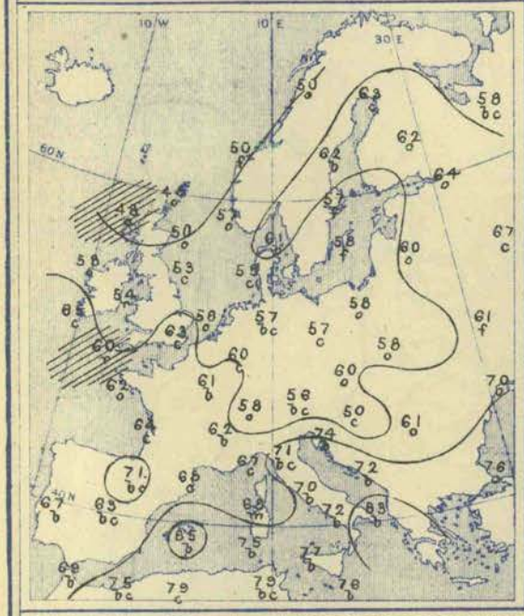
III.—SUMMARY OF WEATHER OVER EUROPE.

Saturday, 16th July.

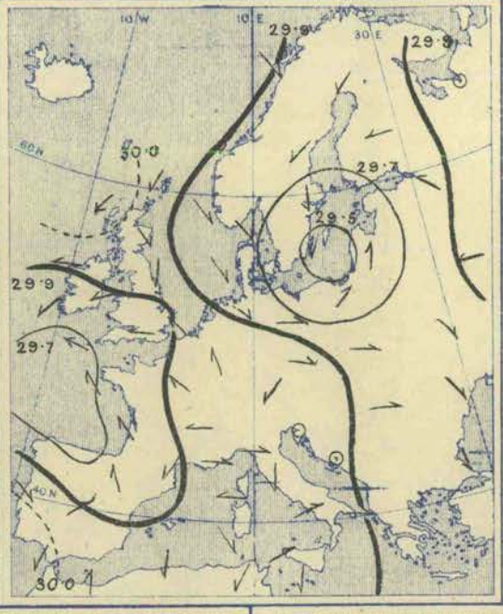
Temperature and Weather.

8 a.m.

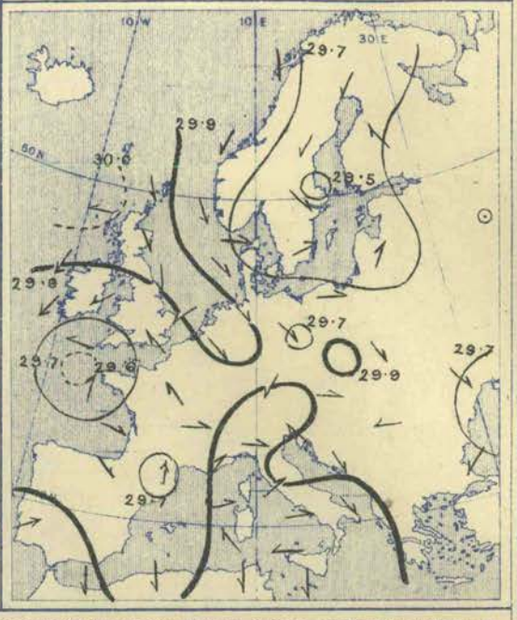


Barometer and Wind.

8 a.m.



6 p.m.



Weather dull over the greater part of our Islands and also in the west of Norway, with rain over central Ireland and the west and north of England. Foggy and rainy over the Baltic, but fine and bright in most parts of central and southern Europe. Heavy rain falling later at many of the French stations, with thunder at Lyons, as well as at Pembroke and Jersey.

Temperature highest, 85° at Palma, 83° at Brindisi, 79° at Barcelona, Algiers, and La Calle, and 77° at Palermo; above 70° at most of the Mediterranean and Adriatic stations, as well as in the south of Russia. Lowest, 48° at Sumburgh Head, Stornoway, and Wick, 49° at Nairn, and 50° at Bodö, Christiansund, and Aberdeen; below 55° in all the more northern parts of the United Kingdom. Rising during day to between 65° and 70° in the south of England, and to between 70° and 80° at most of the French stations; exceeding 80° over the greater part of southern Europe, and reaching 91° at Perpignan.

Wind light or moderate from the South-Eastward over France, and the south-east of England and from the Eastward in the western parts of the United Kingdom; light from the Northward in the north and east of Scotland; moderate from North-West on the eastern shores of the North Sea, and from West in Germany; well marked cyclonic circulation shown over Sweden and northern Russia; light and variable breeze over southern Europe and the Mediterranean. Subsequently shifting to the Westward in the west of France; no important change occurring elsewhere.

Barometer highest, 30·0 ins. and upwards in three separate areas,—one lying over the extreme north-west of our Islands, another over south Germany, and a third off the south-west of Spain. Lowest, 29·5 ins. and less in a depression lying over the northern part of the Baltic, 29·7 ins. and less in another system lying over the Bay of Biscay. Baltic depression subsequently moving northwards and partially filling up, disturbance over Bay of Biscay spreading eastwards; secondary disturbances appearing over various parts of France.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟿ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze: and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During the past week the general distribution of pressure over Europe has been very complex. At the commencement of the time a large anticyclone of diminishing intensity travelled in a north-easterly direction from the Bay of Biscay to the North Sea, and finally passed away to the northward of our Islands, the prevailing winds over western Europe being light and variable, and the weather mostly fair. On the 11th a new high pressure system appeared off the south-west of Spain, but in the meantime a depression of some importance had advanced over our own south-west coasts, and on the two following days, when this disturbance moved slowly eastwards, unsettled rainy weather was experienced over Ireland and England, with North-Easterly winds over the greater part of the United Kingdom, and with Westerly and North-Westerly winds in France and Spain. The depression ultimately passed away to central Europe and to Russia, but on the 15th a new disturbance appeared off our south-west coasts, and also spread eastwards, occasioning a renewal of unsettled weather over all our more southern districts, with moderate to fresh winds from the Eastward. Over northern Europe the weather during the entire week has been under the influence of low pressure systems, which have moved in an irregular manner over various parts of Scandinavia and Russia.

BRIGHT SUNSHINE Values for the Week in addition to those found on page 164.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	22·1	?	19	?	EASTBOURNE	38·6	?	34	?
OSWALDKIRK (Yorkshire)	16·3	?	14	?	TENBY *	34·2 *	?	30 *	?
WORKSOP	7·1	−28·7	6	−26	NEWQUAY	49·8	?	45	?
THURCASTON (Leicestershire)	7·2	−29·6	6	−27	TORQUAY *	44·9 *	?	41 *	?
MARGATE	27·0	?	24	?	ARLEY COTTAGE (County Cavan)	24·8	?	22	?
WESTBOURNE (Sussex)	28·8 *	?	26 *	?	GUERNSEY *	59·3 *	?	54 *	
BRIGHTON	41·1	?	37	?					

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

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VOL. IX. No. 29.] *Third Series.* WEEK ENDING SATURDAY, 23RD JULY, 1892. [*Price 6d.* [*Annual subscription post paid*, £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years' observations (1871-90). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the ten years 1881-90. RAINFALL.—*The Mean amounts* are those for the corresponding periods in the twenty-five years 1866-90, but the *Mean numbers of Rainy Days* are those for the ten years 1881-90, only. BRIGHT SUNSHINE.—*The Mean values* employed are those for the corresponding periods in the ten years 1881-90.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 170.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1892. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	71	41	58·4	46·8	52·2	3 below.	71	−10	0	0	862	− 26	754	+212
	1. SCOTLAND, EAST	75	38	61·7	46·3	53·5	4 below.	81	−22	0	0	1048	−138	810	+241
	2. ENGLAND, N.E.	72	39	60·2	47·5	53·4	6 below.	80	−35	0	0	1147	− 82	684	+186
	3. ENGLAND, EAST	75	39	62·4	48·1	54·7	6 below.	89	−38	0	0	1393	− 71	771	+210
	4. MIDLAND COUNTIES	76	41	63·2	46·6	54·3	6 below.	86	−36	0	0	1431	− 39	802	+250
	5. ENGLAND, SOUTH	78	42	63·9	50·2	56·6	5 below.	102	−29	0	0	1506	− 78	554	+138
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	70	39	61·8	48·6	54·7	3 below.	89	−14	0	0	1145	− 72	610	+193
	7. ENGLAND, N.W.	71	40	60·6	49·7	54·8	4 below.	90	−23	0	0	1254*	− 49	579	+165
	8. ENGLAND, S.W.	77	36	63·7	49·6	56·2	3 below.	99	−19	0	0	1447	− 29	433	+117
	9. IRELAND, NORTH	69	40	60·3	50·3	55·1	3 below.	92	−12	0	0	1264	− 63	484	+122
	10. IRELAND, SOUTH	69	41	62·8	51·4	56.7	2 below.	103	−11	0	0	1485	− 37	410	+132
	— CHANNEL ISLANDS	68	53	62·7	54·6	58·4	2 below.	115	−13	0	0	1655	+ 30	164	+ 42

Rainfall.

	DISTRICTS. (See p. 170.)	For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1892. Number of Rainy Days.	Difference from Mean.	Total Fall.	Difference from Mean.
			10ths of In.	10ths of In.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	8	1 less.	136	+ 4	23·1	− 1·3
	1. SCOTLAND, EAST	3	7	0 (average)	108	+ 1	13·6	− 2·2
	2. ENGLAND, N.E.	2	6	0 (average)	107	+ 8	13·0	0·0
	3. ENGLAND, EAST	4	9	3 more.	103	+ 6	12·5	− 0·6
	4. MIDLAND COUNTIES	2	8	1 less.	93	− 3	12·2	− 2·4
	5. ENGLAND, SOUTH	3	7	1 more.	79	−14	9·5	− 4·5
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	2	7	2 less.	104	−10	20·9	− 4·3
	7. ENGLAND, N.W.	2	7	1 less.	106	+ 2	16·6	0·0
	8. ENGLAND, S.W.	3	2	6 less.	97	−10	13·3	− 6·6
	9. IRELAND, NORTH	2	3	5 less.	113	− 9	17·8	− 0·6
	10. IRELAND, SOUTH	1	less than ½	7 less.	102	−11	18·0	− 2·2
	— CHANNEL ISLANDS	0	—	6 less.	98	−16	13·2	− 2·9

Bright Sunshine.

	DISTRICTS. (See p. 170.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1892. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	26	+ 1	21	+ 1	779	+ 21	29	+ 1
	1. SCOTLAND, EAST	29	− 7	25	− 8	883	+ 19	33	+ 1
	2. ENGLAND, N.E.	24	−13	21	−10	855	+ 71	32	+ 2
	3. ENGLAND, EAST	39	−10	35	− 9	991	+ 48	38	+ 2
	4. MIDLAND COUNTIES	30	−10	27	− 8	933	+101	35	+ 3
	5. ENGLAND, SOUTH	40	− 3	36	− 5	1086	+193	41	+ 7
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	40	+ 2	35	+ 3	928	+ 77	35	+ 3
	7. ENGLAND, N.W.	27	0	33	0	*950	+109	36	+ 4
	8. ENGLAND, S.W.	47	+ 4	43	+ 4	1097	+116	42	+ 4
	9. IRELAND, NORTH	26	− 6	23	− 4	854	+ 59	32	+ 2
	10. IRELAND, SOUTH	28	− 7	25	− 6	936	+ 29	36	+ 2
	— CHANNEL ISLANDS	61	+ 9	57	+ 9	1287	+156	49	+ 6

Bright Sunshine.—For several of the stations there are no "mean" values available, and the "difference from the mean" in some of the districts is consequently that of only a few of the stations.

General Remarks.

Weather was cold, stormy, and unsettled during the early part of the week, with heavy rain in all but the south-western parts of the Kingdom, and with thunder at some of the English stations. After the middle of the period, however, a marked improvement was experienced, and at the close of the week fair warm weather was prevalent in nearly all districts.

Temperature was everywhere below the mean, the deficit ranging from 2° in Ireland S. and the Channel Islands to 8° in England S., and to 6° over the eastern and central parts of England. The highest readings were registered on the 22nd and 23rd, when the thermometer exceeded 70° in most parts of Great Britain, and exceeded 75° in the east and south of England. In Ireland and the Channel Islands, however, it did not rise above 68° or 69°. The maxima, registered over England on the 17th, were unusually low for the time of year, the thermometer in some places failing to reach 55°. The lowest of the daily minima occurred on various dates in Ireland, but mostly on the 18th or 19th, over Great Britain the thermometer falling to 40°, or a little below, in most districts, and registering as low as 36° in England S.W. (at Llandovery).

Rainfall amounted to rather more than the mean in England E. and England S., and just equalled it in Scotland E. and England N.E. In other parts of the Kingdom, however, a deficit was shown, and in Ireland and the south-west of England the difference from the mean was very large.

Bright Sunshine although more prevalent than during the preceding week, was in most districts considerably less than the mean. The percentage of the possible duration ranged from 21 in Scotland N. and England N.E., and 23 in Ireland N., to 36 in England S., and to 43 in England S.W. In the Channel Islands, however, the percentage was as high as 57.

Barometer and Wind.—The barometer was at first highest in the north-west of our Islands, and lowest in some small depressions lying off our south and south-east coasts, the prevailing winds being North-Easterly. On the 18th, the depressions filled up, but at night a new disturbance of considerable depth for the time of year, approached our Islands from the northward, and on the 19th and 20th, the centre of this system travelled in a south-south-easterly direction across Scotland and along our east coasts to the Continent. During its progress moderate to strong gales from the North-Westward or Northward were experienced in nearly all parts of the Kingdom. As the disturbance passed away an anticyclone gradually extended over from the westward, and at the close of the time light winds were reported generally,—from the South-Westward or Westward in the north, but from the North-Eastward in the south.

* This value has been altered owing to the receipt of further information.

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213 70 7|92 1896

II.—DATA from which the SUMMARY on page 169 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head Ꞩ	56	42	53·4	45·7	49·3	− 3·4	51	0	3	0·13	−0·39	*	*	*	*
	Stornoway Ꞩ	64	43	58·0	46·9	52·1	− 2·6	71	0	4	0·89	+0·22	31·6	+0·3	27	+ 1
	Wick Ꞩ	65	43	58·0	47·1	52·2	− 3·0	71	0	5	0·89	+0·35	*	*	*	*
	Lairg Ꞩ	63	42	58·9	46·0	52·0	− 3·4	70	0	4	0·69	+0·01	*	*	*	*
	Glencarron Ꞩ	67	41	58·3	46·1	51·8	− 2·7	69	0	4	1·38	−0·03	*	*	*	*
	Fort Augustus Ꞩ	71	42	61·2	47·2	53·7	− 3·0	82	0	3	0·59	−0·13	21·4	?	18	?
	Fort William Ꞩ	69	47	61·1	48·8	54·5	− 2·3	88	0	4	0·82	−0·42	22·3	?	19	?
1. SCOTLAND, E.	Nairn Ꞩ	69	41	61·3	46·9	53·6	− 3·8	81	0	4	0·77	+0·16	*	*	*	*
	Aberdeen Ꞩ	66	40	59·0	47·3	52·7	− 4·4	75	0	4	1·19	+0·52	29·2	−8·7	25	− 8
	Braemar Ꞩ	68	38	58·7	44·2	51·0	− 3·7	63	0	2	0·75	+0·07	36·2†	?†	31†	?†
	Ochtertyre Ꞩ	75	40	66·7	45·9	55·6	− 1·6	95	0	2	0·42	−0·36	*	*	*	*
	Leith Ꞩ	71	41	63·9	48·1	55·5	− 3·2	95	0	2	0·37	−0·27	*	*	*	*
	Marchmont Ꞩ	69	41	60·6	45·6	52·6	− 4·4	74	0	2	0·80	0·00	27·3	?	24	?
2. ENGLAND, N.E.	Alnwick Castle	63	40	59·3	46·9	52·7	− 4·8	75	0	3	0·55	−0·13	*	*	*	*
	Durham	70	39	63·3	46·0	54·1	− 5·2	85	0	3	0·69	+0·01	20·6	−16·4	18	−14
	Shields	64	42	58·4	46·9	52·3	− 5·8	72	0	2	0·62	−0·03	*	*	*	*
	Scarborough ℳ	64	44	58·5	47·8	52·8	− 6·7	76	0	1	0·64	−0·03	*	*	*	*
	York	72	43	63·6	47·6	55·0	− 4·8	91	0	1	0·61	−0·03	29·2	− 7·0	26	− 6
	Spurn Head	62	48	58·3	49·7	53·7	− 6·4	82	0	3	0·53	+0·12	*	*	*	*
3. ENGLAND, E.	Hillington ℳ	74	44	63·8	48·3	55·5	− 5·2	99	0	4	0·90	+0·20	41·1	− 2·7	37	− 2
	Yarmouth	64	46	59·1	49·7	54·1	− 6·6	85	0	4	0·68	0·00	*	*	*	*
	Geldeston	70	39	61·4	47·4	53·9	− 7·0	83	0	4	0·75	+0·15	26·6	−20·1	24	−18
	Cambridge	75	44	64·9	47·7	55·7	− 5·9	96	0	3	0·88	+0·34				
	Rothamsted	71	44	62·9	47·2	54·5	− 5·9	88	0	3	1·18	+0·55	49·9	?	45	?
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	71	41	63·0	44·6	53·2	− 7·2	78	0	2	0·55	−0·08	*	*	*	*
	Loughborough	76	42	64·6	46·3	54·8	− 6·7	90	0	2	0·54	0·00	*	*	*	*
	Stamford (Ketton Hall)	74	42	65·1	45·6	54·7	− 6·7	89	0	2	0·73	+0·13	*	*	*	*
	Cheadle ℳ	67	44	60·2	46·5	52·9	− 5·2	76	0	2	0·97	+0·26	*	*	*	*
	Churchstoke ℳ	69		61·3						2	0·18	−0·44	25·3	−14·4	23	−12
	Hereford ℳ	73	45	64·2	48·0	55·5	− 4·9	95	0	3	0·25	−0·31	*	*	*	*
	Cirencester	69	41	61·7	47·0	53·8	− 5·6	83	0	3	0·54	−0·18	40·7	− 0·6	37	0
	Oxford	72	43	63·7	48·1	55·4	− 5·6	94	0	3	0·76	+0·16	38·9	− 4·0	35	− 3
5. ENGLAND, S.	London	74	47	64·6	49.6	56·6	− 6·1	102	0	3	0·79	+0·26	37·9†	− 1·9†	34†	− 2†
	North Foreland	65	49	60·7	51·6	55·8	− 5·4	97	0	4	1·00	?	*	*	*	*
	Strathfield Turgiss ℳ	75	42	64·8	48·4	56·0	− 5·4	98	0	3	0·78	+0·24	*	*	*	*
	Dungeness	65	46	62·0	50·1	55·6	− 6·1	95	0	4	0·96	+0·50	*	*	*	*
	Hastings (St. Leonards)	65	50	62·4	51·2	56·4	− 5·3	101	0	4	0·97	+0·46	42·9	− 7·3	39	− 7
	Southampton	78	46	67·9	50·7	58·7	− 3·3	117	0	3	0·31	−0·33	40·4	− 6·4	37	− 6
	Hurst Castle	72	46	65·4	51·3	57·9	− 3·8	111	0	3	0·14	−0·36	*	*	*	*
	Stowell ℳ	73	42	63·5	48·7	55·6	− 4·5	95	0	2	0·25	?	*	*	*	
6. SCOTLAND, W.	Laudale (Loch Sunart)	63	43	60·0	46·5	52·8	− 4·3	76	0	4	1·13	−0·12	*	*	*	*
	Glasgow	70	45	63·2	49·0	55·6	− 1·8	95	0	2	0·50	−0·33	31·5	+2·5	27	+ 2
	Ardrossan	66	49	61·9	50·4	55·8	− 2·3	97	0	1	0·47	−0·21	*	*	*	*
	Glenlee Ꞩ	67	39	62·2	48·0	54·6	− 2·3	88	0	2	0·67	−0·33	*	*	*	*
	Douglas (Isle of Man)	67	47	61·5	49·0	54·8	− 2·6	90	0	2	0·80	+0·08	47·6	+ 4·5	42	+ 4
7. ENGLAND, N.W.	Newton Reigny	68	40	61·5	46·6	53·5	− 3·7	81	0	2	0·63	−0·10	31·8	− 5·2	28	− 5
	Stonyhurst	65	43	60·2	47·2	53·3	− 5·3	79	0	2	0·96	−0·10	40·5	+ 3·8	36	+ 3
	Blackpool ℳ	71	42	63·1	51·0	56·6	− 3·1	102	0	1	0·10	+0·67	40·0	+ 0·1	35	0
	Manchester	70	43	61·5	47·6	54·1	− 4·5	85	0	2	0·79	−0·11	*	*	*	*
	Liverpool Obsy. (Bidston)	63	50	60·0	51·9	55·7	− 4·1	96	0	2	0·63	−0·05	*	*	*	*
	Llandudno ℳ	63	50	59·5	51·3	55·4	− 4·8	94	0	2	0·79	+0·17				
	Holyhead	61	42	58·6	52·0	55·1	− 4·1	92	0	3	0·72	+0·15	*	*	*	*
8. ENGLAND, S.W.	Llandovery	77	36	66·6	46·6	55·9	− 3·5	97	0	4	0·43	−0·52	*	*	*	*
	Pembroke	67	50	61·0	51·3	55·8	− 2·8	97	0	2	0·07	−0·53	48·4	+ 3·6	44	+ 3
	Arlington (N. Devon)	69	41	61·3	47·0	53·7	− 4·9	82	0	3	0·24	−0·87	*	*	*	*
	Cullompton ℳ	73	42	65·7	48·5	56·5	− 3·3	102	0	3	0·14	−0·54	39·2	− 0.1	36	0
	Falmouth	69	50	64·0	52·6	57·9	− 2·1	111	0	1	0·02	−0·77	55·4	+ 8·9	51	+ 8
	Plymouth															
	Prawle Point	69	48	63·3	51·7	57·1	− 2·3	106	0	2	0·08	−0·46	*	*	*	*
9. IRELAND, N.	Malin Head	59	50	57·7	51·7	54·5	− 3·1	88	0	4	0·43	?	*	*		*
	Londonderry		48		50·2					2	0·46	−0·36	*	*	*	*
	Edenfel (Omagh)	67	42	59·9	48·3	54·4	− 3·2	87	0	2	0·29	−0·49	*	*	*	*
	Mullaghmore	62	50	59·4	51·4	55·1	− 3·4	92	0	5	0·21	−0·67	*	*	*	*
	Belmullet	63	50	60·1	52·9	56·3	− 1·6	100	0	3	0·07	?	*	*	*	*
	Markree Castle	64	42	59·9	48·3	53·7	− 3·0	82	0	5	0·35	−0·37	24·8	− 3·5	22	− 4
	Brookeborough	69	40	62·2	48·9	55·1	− 2·2	92	0	2	0·23	−0·63	*	*	*	*
	Armagh	68	42	62·3	48·0	54·7	− 3·2	89	0	2	0·17	−0·57	23·9	− 6·1	21	− 5
	Donaghadee	63	51	61·0	52·9	56·7	− 0·6	103	0	2	0·43	−0·26	*	*	*	*
	Edgeworthstown												*	*	*	*
10. IRELAND, S.	Dublin	64	47	61·9	51·4	56·3	− 3·5	100	0	1	0·11	−0·45	31·3	− 4·2	28	− 4
	Parsonstown	66	41	63·0	48·4	55·2	− 3·6	92	0	1	0·07	−0·63	16·2	−16·3	14	−14
	Kilkenny	66	44	62·7	50·7	56·3	− 2·4	100	0	1	0·04	−0·55	*	*	*	*
	Waterford	69	45	64·7	50·1	56·9	− 2·6	104	0	0	—	−0·68	*	*	*	*
	Roche's Point	66	50	63·4	53·6	58·2	− 1·7	113	0	0	—	−0·75	*	*	*	*
	Valencia	66	44	62·3	52·3	57·0	− 1·7	105	0	2	0·05	−0·85	35·6	+ 0·6	32	− 0
	Killarney	66	41	62·6	50·5	56·1	− 2·4	99	0	2	0·04	?	*	*	*	*
	Foynes	67	50	61·9	54·2	57·8	− 0·7	111	0	0	—	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	68	53	62·7	54·6	58·4	− 1·8	115	0	0	—	−0·58	*	*	*	*
	Jersey												62·3	+ 9·8	58	+ 9

Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked Ꞩ with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

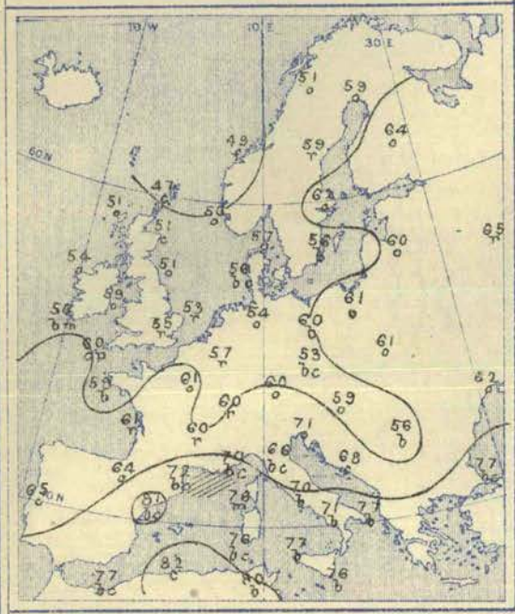
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory and the Meteorological Office, Victoria Street. For additional Reports of Sunshine see last page. NOTE.—It will be observed that Edenfel (Omagh) has been added to the list of stations in "Ireland, N."

III.—SUMMARY OF WEATHER OVER EUROPE.

Sunday, 17th July.

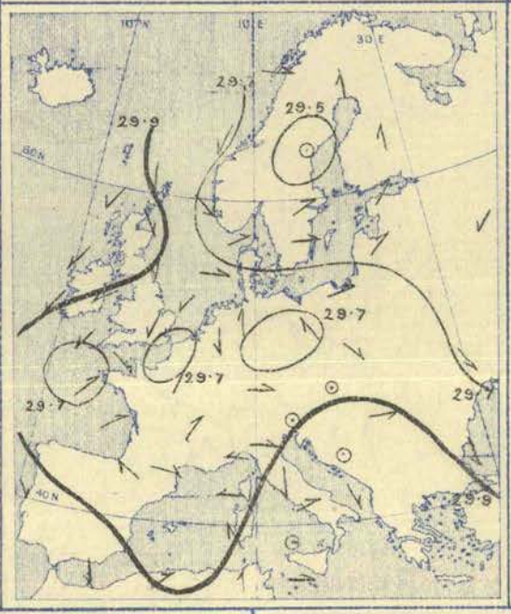
Temperature and Weather.

8 a.m.

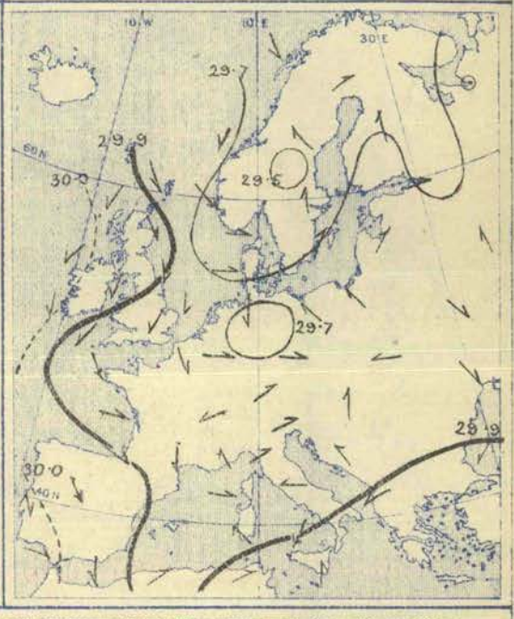


Barometer and Wind.

8 a.m.



6 p.m.



Weather dull in most places, with steady rain in the south and east of England, as well as over Belgium, the central parts of France, and at one or two of the Scandinavian stations. Fine and bright over the central and southern countries of Europe, and fair in the south of Ireland. Some improvement over south of England towards night, but heavy rain falling in France, with thunderstorms in places.

Temperature highest, 82° at Algiers, 81° at Barcelona, 80° at La Calle, and 77° at Constantinople and Oran, above 70° at most of the Adriatic and Mediterranean stations, above 65° over central and southern Russia, and above 60° in Finland. Lowest, 47° at Sumburgh Head, 49° at Christiansund and Wick, below 55° in all but the extreme southern and south-western parts of United Kingdom. Maxima very low for time of year, below 60° in most places, and not exceeding 55° in London. Rising to 70° or more over the southern parts of France and reaching 84° at Perpignan and 90° and more over Algeria and southern Europe.

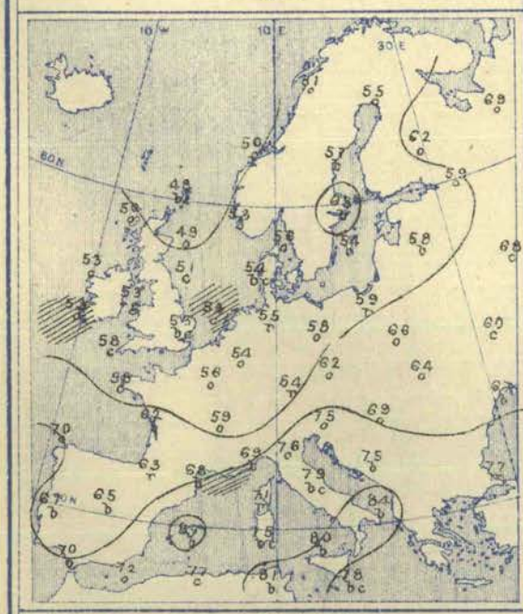
Wind light to moderate from the North-Eastward over the greater part of the United Kingdom, Northerly in the north and east of Scotland, moderate to strong from the Westward or North-Westward on the eastern shores of the North Sea, light from the Southward over Finland and the Baltic Provinces, light South-Westerly at the central French stations, but variable over central and southern Europe generally. No important change occurring during day, except decrease in strength of North-Easterly wind over south of England.

Barometer highest, 30·0 ins. and upwards in an anticyclone lying off the south-west of Spain, and also in another system lying to the north-west of the United Kingdom. Lowest, 29·5 ins. and less in a depression over central Sweden, 29·7 ins. and less in three other systems, one lying off the mouth of the Channel, another over Belgium, the south-east of England, and the north-east of France, and a third over central Germany. Depressions moving to eastward during day and undergoing great modifications; barometer rising in most parts of western Europe.

Monday, 18th July.

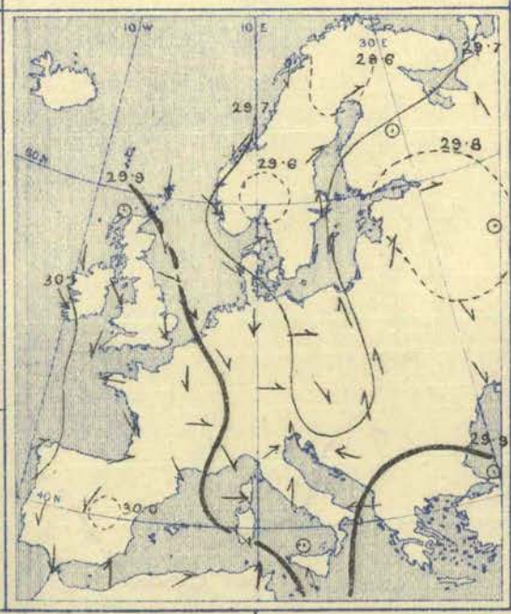
Temperature and Weather.

8 a.m.

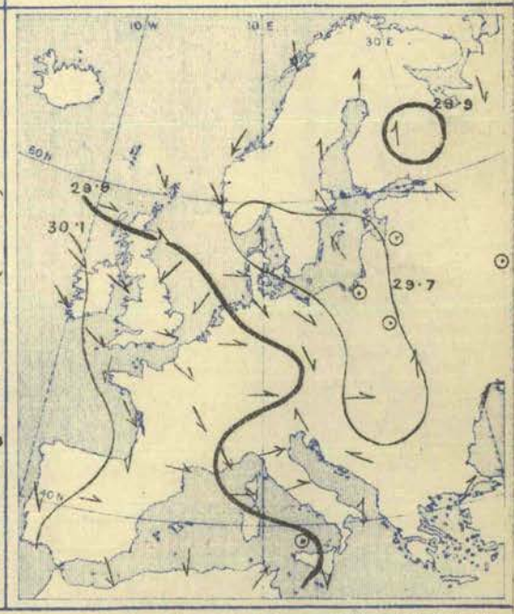


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright in the extreme south-west and south of Europe only, cloudy or overcast generally elsewhere, with rain in several parts of central Europe and the north-western parts of the British Islands, as well as at Biarritz. Showers later in several parts of Europe, England, and Ireland,—heaviest in Austria; thunder in north Germany. Steady rain setting in over the north of Scotland at night.

Temperature low generally for the time of year except in the extreme south. Morning readings, exceeding 80° at Brindisi, Palermo, La Calle, and Palma, and exceeding 70° in many parts of southern Europe, exceeding 60° over central Europe and Russia, but lower over France, the British Isles, and Scandinavia. Lowest of all, 48° to 50° in the north and east of Scotland, 51° at Bodö, Malin Head, and Shields, 52° at York. Rising later to a little above 60° in many parts of our Islands, to rather higher over north Germany, and to between 78° and 86° in the south of France, to 90° and more over southern Italy, and to 106° at Laghouat.

Wind chiefly Northerly to North-Westerly in the western part of Europe, and Southerly to South-Easterly in the east, but varying locally; Westerly over the northern parts of the Mediterranean, Southerly to South-Westerly over Italy, and Easterly over the Adriatic. Backing to the Westward in Scotland later, and over Ireland and the west of England, but becoming South-East in the east of Scotland and in Sweden.

Barometer highest, (1) 30·1 ins. to 29·9 ins. over the British Isles, France and Spain; (2) 29·8 ins. and more to 29·7 ins. over Russia. Lowest, 29·6 ins. and less to 29·7 ins. in a large complex depression stretching southwards from Lapland, across Scandinavia, Denmark, and the Baltic, to Germany and Austria; 29·7 ins. and less in a small disturbance over the Riviera. Rising over Scandinavia later, but beginning to fall in the north-west of Scotland.

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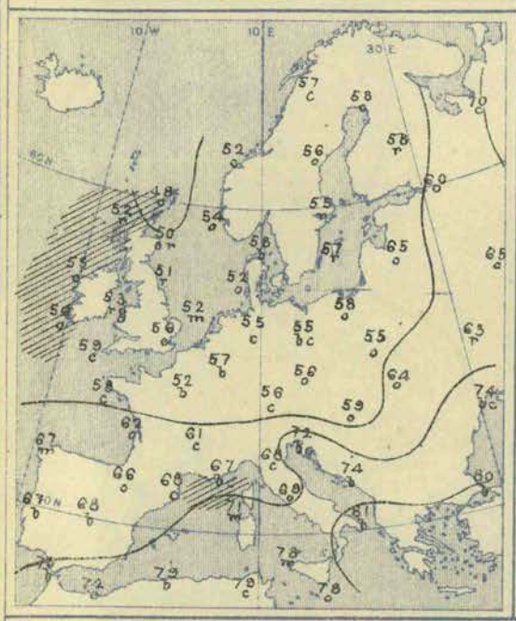
III.—SUMMARY OF WEATHER OVER EUROPE.

Tuesday, 19th July.

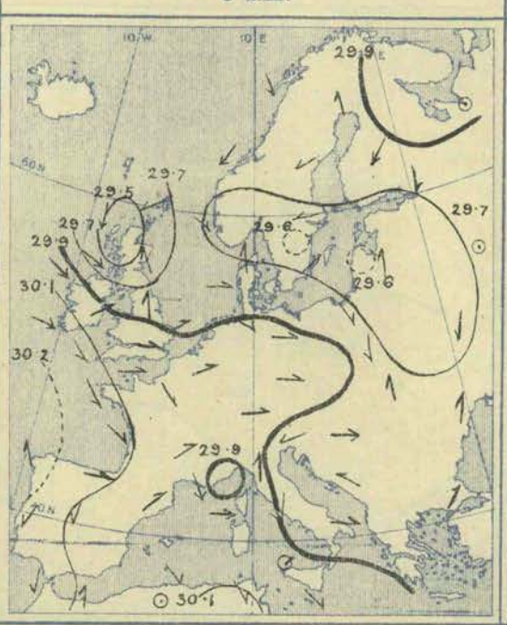
Temperature and Weather.

8 a.m.

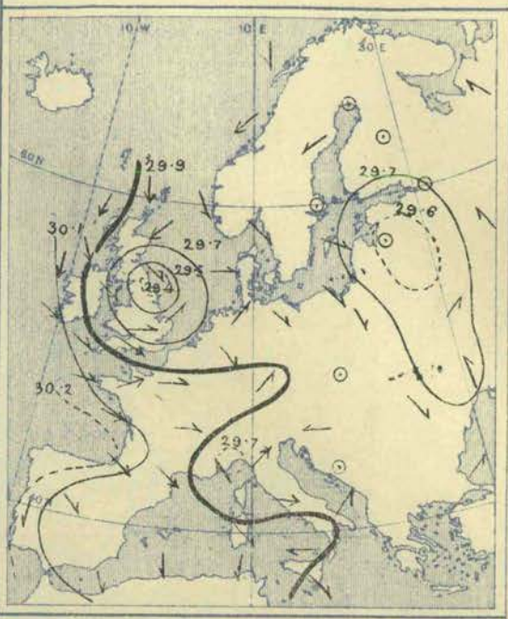


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over south-western, southern, and south-eastern Europe, also in some parts of France; temporarily fine over the southern counties of England, cloudy or overcast elsewhere; rainy over the Baltic, and very rainy, squally, and unsettled over the northern parts of the British Islands. Much rain over the United Kingdom, at French, German, and Austrian stations during the day, and in Russia; thunderstorm occurring at the North Foreland, and in south-east of France.

Temperature still very low for time of year over north-western countries. Morning readings, 81° at Brindisi, 80° at Constantinople, and above 70° in several other parts of southern and south-eastern Europe, above 60° over Hungary and Russia, 70° at Archangel. Below 60° over north-western Europe, and as low as 48° at Sumburgh Head, 50° at Aberdeen, 51° at Shields and Christiansund. Rising later to 114° Fahr. at Biskra, to 90° and more over south of Italy, to between 70° and 81° over the south of France, 60° and more over Germany, Denmark, and Sweden as well as some parts of England; falling to reach 55° in the north-east of Scotland.

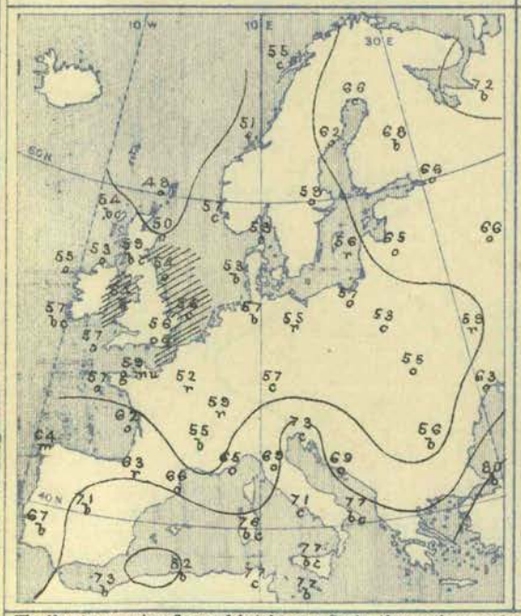
Wind mainly Easterly over Finland and Sweden, mainly Westerly, but very variable, in the more southern and central districts. A well marked cyclonic circulation of strong winds and gales advancing over the British Islands from the Northward. North-Westerly to North-Easterly gales experienced later on all our coasts, and strong Westerly winds in France.

Barometer highest, 30·3 ins. to 30·0 ins. over Spain, the Bay of Biscay, France, and the south-western parts of the United Kingdom; 29·9 ins. and more to 29·8 ins. over the north of Russia, Finland, and Lapland. Lowest, 29·6 ins. to 29·7 ins. in a complex depression over the south of Scandinavia, the Baltic Provinces, and western Russia, below 29·9 ins. in a small disturbance over the Gulf of Genoa, and below 29·5 ins. in a well defined deep depression over Scotland. Latter disturbance advancing rapidly to the south-eastward and southward during day.

Wednesday, 20th July.

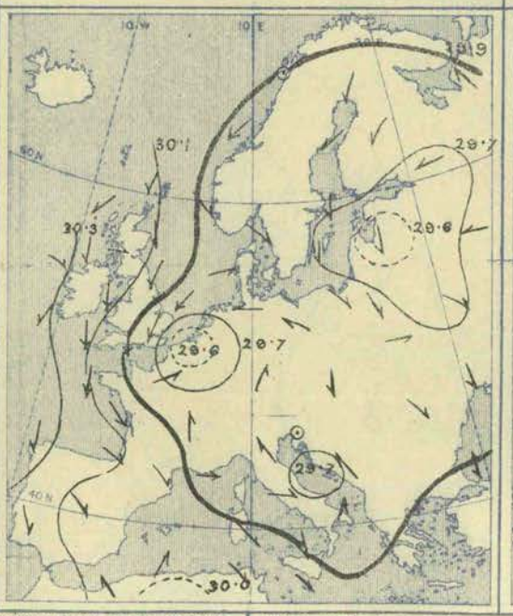
Temperature and Weather.

8 a.m.

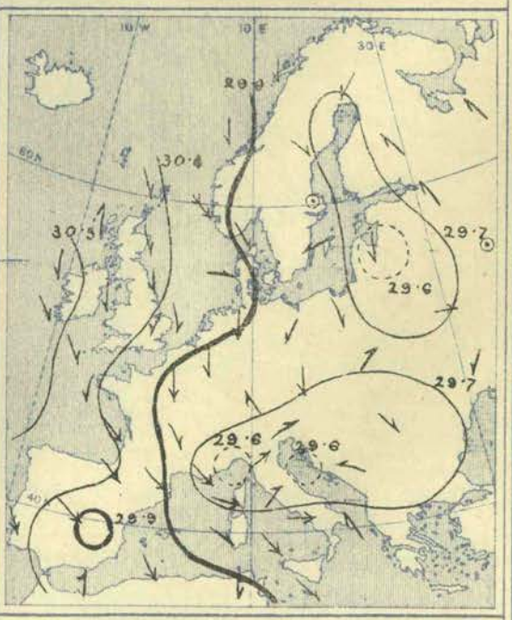


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over Spain, the southern and eastern shores of the Mediterranean, and south-eastern Europe, also at most of the western stations in the United Kingdom; cloudy and overcast elsewhere, and unsettled and rainy over the Baltic Provinces, the south-east of England, Belgium, and the north-east and east of France. Considerable rain later over Germany, the east of France, and in Russia, and a little in the south-east of England, and heavy falls in the south-west of Austria; slight local showers at our northern stations.

Temperature very low for the time of year over the north-western and western countries, and falling over south-eastern Europe. Morning readings, 80° or more at Constantinople, Algiers, and Oran, and above 70° at most of the Mediterranean and Adriatic stations, above 60° over Russia, Finland, and the northern half of Sweden; lower elsewhere. Lowest, 48° at Sumburgh Head and Wick, 50° at Aberdeen, 51° at Christiansund and Nairn, 53° at Malin Head. Rising to between 60° and 70° over the greater part of England and Ireland later, and to between 70° and 80° in the south of France and at Lisbon, to nearly 90° over Italy, and to 110° and more over central Algeria.

Wind, (1) North-Easterly over the northern parts of Scandinavia and Scotland, Northerly, strong to a gale over England, chiefly North-Westerly to Westerly over south-western Europe and the Mediterranean; (2) light North-Easterly over Finland, moderate Northerly over the Baltic, light North-Westerly to Westerly over Poland and Hungary. Moderating steadily over England later, but blowing strongly from between North and North-West over the Netherlands and France; beginning to back towards South-West on our north-western coasts in the afternoon.

Barometer highest 30·3 ins. to 30·0 ins. in the eastern portion of a very large high pressure system spreading from the Atlantic over Spain, the Bay of Biscay, and the greater part of the United Kingdom. Lowest, 29·6 ins. and less to 29·8 ins. in a large and complex depression covering the Netherlands, the north-east and east of France, western Germany, northern Italy, and the Adriatic, and also in another system lying over the Baltic Provinces and western Russia. Rising steadily in our Islands later as the Belgic depression moved south-eastwards to northern Italy.

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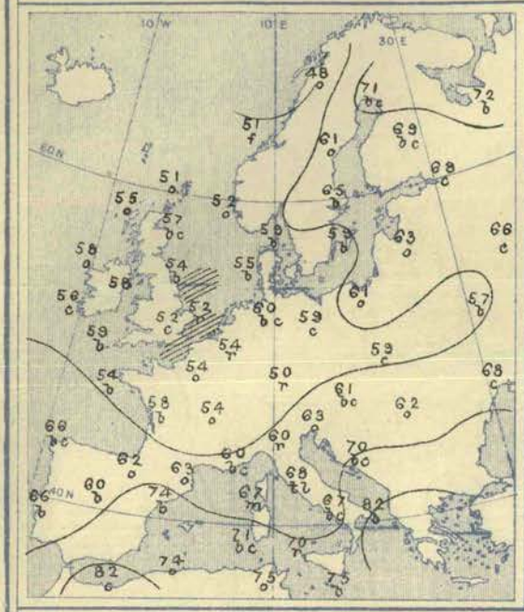
III.—SUMMARY OF WEATHER OVER EUROPE.

Thursday. 21st July.

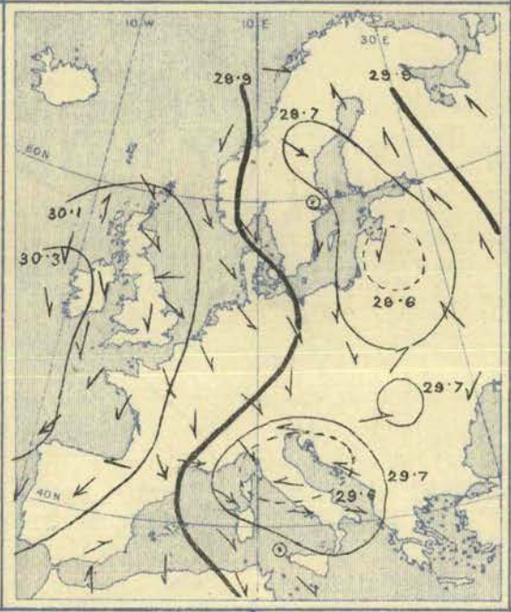
Temperature and Weather. 8 a.m.

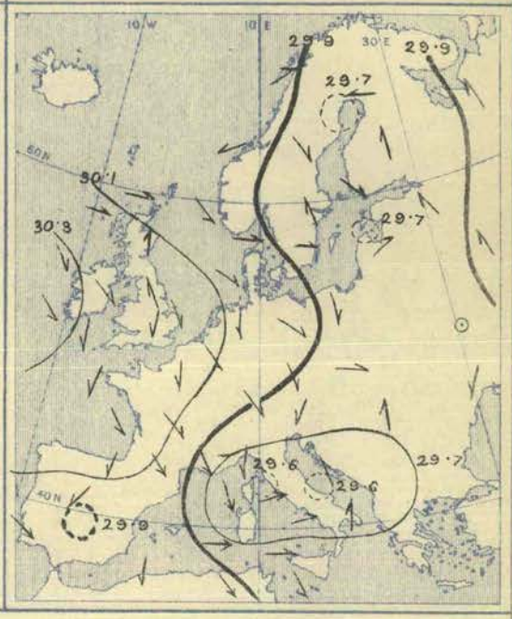


Weather in morning fair generally over Spain, France, the greater part of the British Islands, the North Sea, Denmark, and the greater part of Sweden; cloudy or overcast elsewhere, dull and very unsettled over northern Italy, with rain in places. Rain later in northern Italy, south Germany, and several parts of Russia, also at Haparanda (Gulf of Bothnia), and slight showers locally in the north-western parts of the British Islands and south of France.

Temperature still very low over north-western Europe. Morning readings, ranging (1) between 70° and 82° over the greater part of the Mediterranean; (2) between 66° and 72° over central and northern Russia, much lower elsewhere; below 60° over France, Germany, and the British Islands generally, and as low as 48° at Bodö, 51° at Christiansund, Sumburgh Head, and Parsonstown, 52° at Yarmouth, Le Mans, and Limoges. Rising later to 120° at Biskra (Algeria), to nearly 90° over the south of Italy, to 70° and more both in the south of France and over Sweden, and to 65° and more in many parts of Great Britain (71° at Leith).

Barometer and Wind. 8 a.m. and 6 p.m.



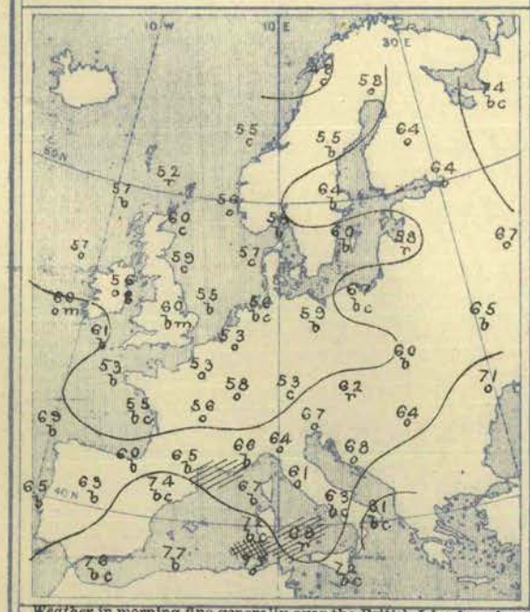


Wind very variable; mainly Northerly over western and central Europe, but Westerly, strong to moderate, over the Mediterranean, South-Easterly over Russia, very variable and light over Ireland, Scotland, and the north-west of Norway. Becoming North-Westerly and Westerly in the last named regions during day, light and variable over England.

Barometer highest, 30·3 ins. and more to 30·1 ins. in the eastern part of an anticyclone spreading from the Atlantic over the British Islands, France, and Spain; 29·9 ins. and more over central and north-eastern Russia. Lowest, 29·6 ins. and less in a depression over the northern parts of Italy and the Gulf of Genoa, and in another over the Baltic Provinces and the Gulf of Bothnia, 29·7 ins. and less in a third (small one) over Hungary. No great change later.

Friday, 22nd July.

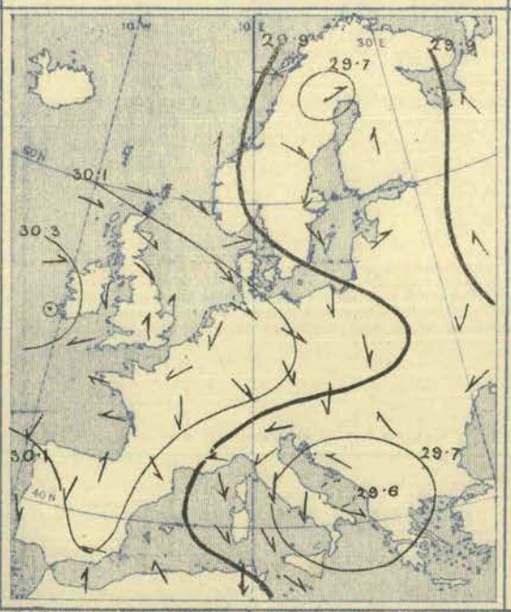
Temperature and Weather. 8 a.m.

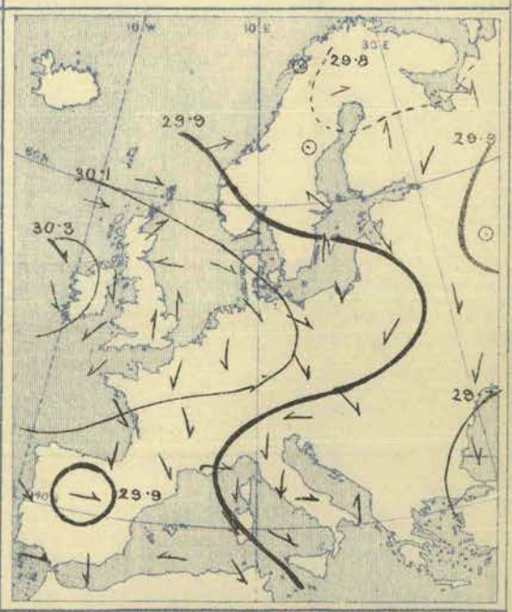


Weather in morning fine generally over the British Islands and western Europe, hazy, with heavy dew, at several English stations, cloudy and slightly showery in the north-west of Ireland, cloudy or overcast both over northern and south-eastern Europe, with rain in places. Slight showers in the northern parts of Ireland and Scotland, Lapland and northern Russia during day, and a heavy fall at Moscow; little change elsewhere.

Temperature inclined to rise over the north-western countries, fallen decidedly over Italy and Algeria. Morning readings, exceeding 80° at Brindisi only, below 70° over all the northern parts of the Mediterranean, exceeding 60°, however, over Austria, Poland, and Russia, and as high as 74° at Archangel. Lowest, 48° at Bodö, 52° at Sumburgh Head, 55° at Christiansund and Hernösand. Rising later to 81° at Hernösand, and to nearly 80° at Stockholm and in the south and west of France, to 70° and more over many of the inland parts of England, and to 60° and more over the United Kingdom generally, to between 80° and 90° over Italy and Spain, and to 100° and more over central Algeria.

Barometer and Wind. 8 a.m. and 6 p.m.





Wind, (1) North-Westerly over the Baltic and eastern shores of the North Sea, Northerly over Poland and eastern Germany, Northerly to North-Westerly over the Mediterranean, South-Easterly, and very light, over the northern half of Russia; (2) very light and variable over the United Kingdom, Easterly over the Bay of Biscay, North-Easterly over Spain; (3) mainly Northerly, but very light, over the east of Ireland and the Irish Channel, Westerly to Southerly in the west of Norway, in Scotland, and the north-west of Ireland; (4) a cyclonic circulation prevalent over Italy and south-eastern Europe. Becoming Northerly in the west of France later.

Barometer highest, 30·3 ins. and more to 30·1 ins. over Ireland, Great Britain, France, and the south-eastern half of the North Sea; 30·0 ins. and more to 29·9 ins. over the eastern half of Russia. Lowest, 29·6 ins. and less to 29·8 ins. in a depression over the Adriatic and south-eastern Europe, 29·7 ins. and less in another over the northern extremity of the Gulf of Bothnia, 29·8 ins. and less in a third (shallow one) over the Baltic Provinces and Gulf of Riga. Little change later, and general distribution unaltered.

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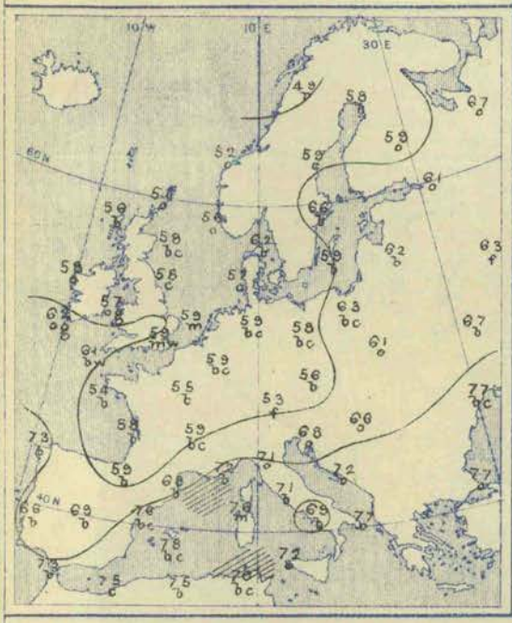
III.—SUMMARY OF WEATHER OVER EUROPE.

Saturday, 23rd July.

Temperature and Weather.

8 a.m.

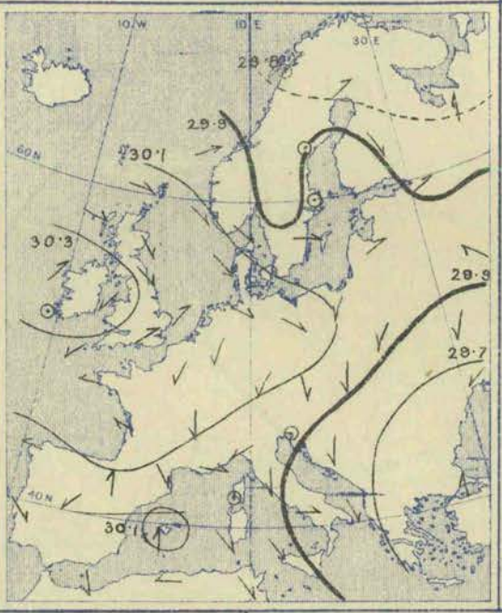


Weather in morning fine over the western, north-western, and central countries, but hazy or dull at several stations in the British Islands; changeable both over northern and south-eastern Europe, with rain at Bodö and Copenhagen. Showers later in several parts of Scandinavia, and heavy falls at Moscow, Trieste, and Palermo; remaining dry over the United Kingdom.

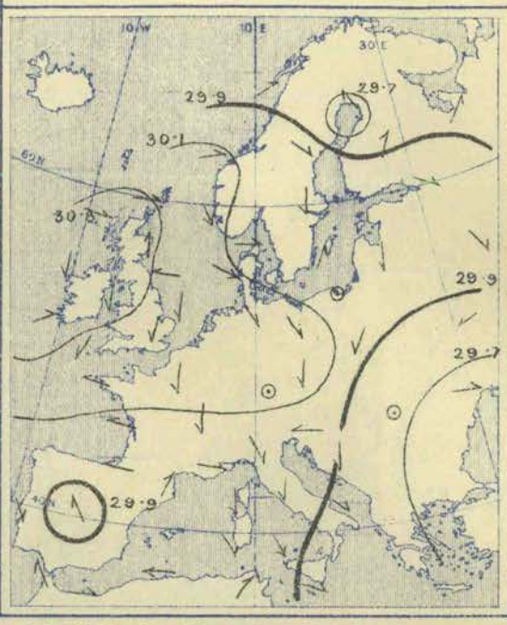
Temperature not above 80° at any station; above 70°, however, over south-eastern Europe and the Mediterranean, and above 60° over Finland, Russia, Austria, and several parts of the British Islands; lower elsewhere, and lowest of all, 49° at Bodö, 51° at Sumburgh Head, 52° at Christiansund, and 54° at Wick. Rising later to 100° and more over central Algeria, to 80° and more over Italy, Spain, and some parts of the south of France, and to 70° and more in many parts of England and Sweden; not reaching 55° at Sumburgh Head.

Barometer and Wind.

8 a.m.



6 p.m.



Wind light and anticyclonic over the British Islands and France, North-Westerly to Westerly over Scandinavia, Denmark, and the Baltic; North-Easterly to Northerly over Poland and Austria-Hungary, Northerly to North-Westerly over the Mediterranean, North-Easterly over Spain. Becoming Easterly over the Bay of Biscay later, and blowing strongly from North-West at Palermo.

Barometer highest, 30·3 ins. and more to 30·6 ins. in the eastern part of a large anticyclone spreading eastwards from the Atlantic across the British Isles and western Europe to Germany, exceeding 30·0 ins. over central Russia also. Lowest, 29·8 ins. and less over Lapland and the White Sea, and in a small secondary depression over Sweden; 29·7 ins. and less over south-eastern Europe and the Black Sea. Falling later both over northern and south-eastern Europe, rising very slightly over the British Isles.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze: and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During this week pressure has been steadily high over the Atlantic and adjacent parts of Europe and the British Islands, but low over the northern, central, and south-eastern countries, in which regions depressions have been found from day to day, while shallow secondary disturbances have passed southwards over the North Sea. The depression of the 19th and 21st, which moved south-south-eastwards from the north of Scotland down our east coast and across western Germany to the north of Italy, was of unusual intensity for the time of year, and the Northerly gales on its western and north-western sides wrought considerable havoc with the shipping on the coasts of our Islands. Northerly winds have predominated over western Europe during the week, temperature has been low, and rainfall frequent but not excessive in amount.

BRIGHT SUNSHINE Values for the Week in addition to those found on page 170.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	24·7	?	21	?	EASTBOURNE	41·3	?	38	?
OSWALDKIRK (Yorkshire)	21·1	?	19	?	TENBY *	45·1 *	?	41 *	?
WORKSOP	20·1	−16·3	18	−15	NEWQUAY	52·4	?	48	?
THURCASTON (Leicestershire)	26·4	−10·8	24	−10	TORQUAY *	44·1 *	?	40 *	?
MARGATE	33·8	?	31	?	ARLEY COTTAGE (County Cavan)	29·7	?	26	?
WESTBOURNE (Sussex) *	39·4 *	?	36 *	?	GUERNSEY *	60·3 *	?	56 *	?
BRIGHTON	44·0	?	40	?					

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.
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VOL. IX. No. 30.] *Third Series.* WEEK ENDING SATURDAY, 30TH JULY, 1892. [*Price 6d.* [*Annual subscription, post paid*, £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years' observations (1871-90). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the ten years 1881-90. RAINFALL.—*The Mean amounts* are those for the corresponding periods in the twenty-five years 1866-90, but the *Mean numbers of Rainy Days* are those for the ten years 1881-90, only. BRIGHT SUNSHINE.—*The Mean values* employed are those for the corresponding periods in the ten years 1881-90.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 176.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1892. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	73	42	64·0	48·5	55·7	1 above.	96	+14	0	0	958	− 11	754	+212
	1. SCOTLAND, EAST -	76	38	65·6	48·6	56·5	1 below.	102	− 2	0	0	1150	−135	810	+241
	2. ENGLAND, N.E. - -	73	44	61·1	50·5	55·4	4 below.	94	−21	0	0	1241	− 97	684	+186
	3. ENGLAND, EAST -	74	48	63·8	52·0	57·5	4 below.	109	−18	0	0	1502	− 84	771	+210
	4. MIDLAND COUNTIES	72	39	65·3	49·5	56·8	3 below.	104	−18	0	0	1535	− 54	802	+250
	5. ENGLAND, SOUTH -	77	43	67·8	53·4	60·1	2 below.	127	− 5	0	0	1633	− 80	554	+138
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	73	41	66·3	49·1	57·1	0 (average)	106	+ 2	0	0	1251	− 69	610	+193
	7. ENGLAND, N.W. -	72	42	65·4	50·0	57·1	2 below.	106	− 8	0	0	1360	− 55	579	+165
	8. ENGLAND, S.W. -	77	45	67·5	52·4	59·5	0 (average)	123	+ 4	0	0	1570	− 25	433	+117
	9. IRELAND, NORTH -	75	39	64·6	50·6	57·1	1 below.	106	+ 1	0	0	1370	− 60	484	+122
	10. IRELAND, SOUTH -	74	41	68·6	50·1	58.7	1 below.	117	+ 3	0	0	1602	− 36	410	+132
	— CHANNEL ISLANDS -	68	53	64·9	55·6	59.9	1 below.	125	− 5	0	0	1780	+ 27	164	+ 42

Rainfall.

	DISTRICTS. (See p. 176.)	For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1892. Number of Rainy Days.	Difference from Mean.	Total Fall.	Difference from Mean.
			10ths of In.	10ths of In.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	1	1	8 less.	137	0	23·2	− 2·1
	1. SCOTLAND, EAST -	1	less than ½.	7 less.	109	− 2	13·6	− 3·0
	2. ENGLAND, N.E. - -	2	less than ½.	6 less.	109	+ 6	13·0	− 0·6
	3. ENGLAND, EAST -	0	—	6 less.	103	+ 2	12·5	− 1·2
	4. MIDLAND COUNTIES-	0	—	6 less.	93	− 7	12·2	− 3·0
	5. ENGLAND, SOUTH -	1	2	4 less.	80	−17	9·7	− 4·8
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	0	less than ½.	9 less.	104	−14	20·9	− 5·3
	7. ENGLAND, N.W. - -	1	less than ½.	8 less.	107	− 1	16·6	− 0·8
	8. ENGLAND, S.W. - -	0	less than ½.	8 less.	97	−14	13·3	− 7·4
	9. IRELAND, NORTH -	1	less than ½.	8 less.	114	−13	17·8	− 1·4
	10. IRELAND, SOUTH -	0	less than ½.	7 less.	102	−15	18·0	− 2·9
	— CHANNEL ISLANDS -	0	—	6 less.	98	−20	13·2	− 3·4

Bright Sunshine.

	DISTRICTS. (See p. 176.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1892. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	52	+12	45	+11	831	+ 43	30	+ 2
	1. SCOTLAND, EAST -	41	− 6	36	− 8	924	+ 23	33	+ 1
	2. ENGLAND, N.E. - -	32	− 6	29	− 5	887	+ 69	32	+ 2
	3. ENGLAND, EAST -	36	−10	33	−11	1027	+ 42	37	+ 1
	4. MIDLAND COUNTIES-	42	+ 2	39	+ 3	975	+106	35	+ 3
	5. ENGLAND, SOUTH -	54	+11	50	+ 8	1140	+205	42	+ 8
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	49	+12	44	+12	977	+ 90	35	+ 3
	7. ENGLAND, N.W. - -	47	+10	43	+ 9	996*	+101	36	+ 4
	8. ENGLAND, S.W. - -	65	+18	60	+18	1162	+138	42	+ 4
	9. IRELAND, NORTH -	42	+ 7	38	+ 7	896	+ 71	32	+ 2
	10. IRELAND, SOUTH -	55	+20	50	+18	991	+ 48	36	+ 2
	— CHANNEL ISLANDS -	41	−14	39	−14	1328	+147	49	+ 6

Bright Sunshine.—For several of the stations there are no "mean" values available, and the "difference from the mean" in some of the districts is consequently that of only a few of the stations.

General Remarks.

Weather during this week was fair and dry until towards the end of the period, when rainy conditions appeared in the north, and sharp thunderstorms were experienced at many of our southern and south-eastern stations.

Temperature slightly exceeded the mean in Scotland N., and just equalled it in Scotland W. and England S.W.: in all other districts it was again below the normal, the deficit ranging from only 1° or 2° in the extreme western districts to as much as 4° in England N.E. and E. The highest of the maxima, which were recorded in most places either on the 29th or 30th, ranged from 77° in England S. and S.W., and 76° in Scotland E., to 72° in the Midland Counties and England N.W., and to 68° in the Channel Islands. The lowest of the minima were registered during the early part of the week, and varied from 38° in Scotland E., and 39° in the Midland Counties and Ireland N., to 48° in England E., and to 53° in the Channel Islands.

Rainfall was much less than the mean, the total fall for the week being in most cases appreciably small.

Bright Sunshine continued less than the mean in Scotland E., and England E. and N.E., and showed a deficit in the Channel Islands also; in all other districts, however, it was in excess. The percentage of the possible duration ranged from 60 in England S.W., and 50 in England S. and Ireland S., to 33 in England E., and 29 in England N.E.

Barometer and Wind.—During the whole of this period the distribution of pressure over our Islands was anticyclonic, but towards the end of the week depressions appeared both to the northward and southward of us, and the high pressure began to give way. The winds were generally North-Easterly or Easterly, but in the extreme north they blew at times from the Westward; in force they were mostly light, but in the extreme south they occasionally increased to a fresh or strong breeze.

* This value has been altered owing to the receipt of further information.

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II.—DATA from which the SUMMARY on page 175 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head ⚓	58	49	56·4	49·4	52·7	− 0·2	75	0	3	0·21	−0·37	*	*	*	*
	Stornoway	65	45	61·1	47·0	53·6	− 1·1	81	0	1	0·02	−0·68	42·4	+12·7	37	+11
	Wick	63	45	61·1	48·6	54·4	− 1·0	87	0	1	0·25	−0·32	*	*	*	*
	Lairg ⚓	73	43	68·0	45·7	56·1	+ 0·8	99	0	1	0·02	−0·68	*	*	*	*
	Glencarron ⚓	74	42	67·6	47·7	57·0	+ 2·4	105	0	1	0·18	−1·29	*	*	*	*
	Fort Augustus ⚓	71	42	66·3	50·5	57·9	+ 1·2	111	0	1	0·02	−0·69	55·1	?	48	?
	Fort William ⚓	72	45	67·8	50·3	58·4	+ 1·6	115	0	1	0·01	−1·27	57·6	?	51	?
1. SCOTLAND, E.	Nairn	73	40	65·6	48·3	56·4	− 1·1	101	0	0	—	−0·64	*	*	*	*
	Aberdeen	66	41	59·0	47·7	53·0	− 4·2	77	0	1	0·09	−0·61	28·7	−8·2	25	− 8
	Braemar ⚓	74	38	69·7	47·4	57·8	+ 3·1	111	0	0	—	−0·73	56·3†	?†	49†	?†
	Ochtertyre ⚓	76	47	71·9	50·7	60·6	+ 3·3	130	0	0	—	−0·80	*	*	*	*
	Leith	72	45	63·6	49·9	56·3	− 2·5	100	0	1	0·02	−0·60	*	*	*	*
	Marchmont ⚓	72	41	63·9	47·4	55·1	− 1·9	92	0	3	0·06	−0·75	41·5	?	37	?
2. ENGLAND, N.E.	Alnwick Castle	64	49	59·7	51·7	55·4	− 2·2	94	0	1	0·01	−0·70	*	*	*	*
	Durham	73	45	64·0	49·6	56·3	− 3·0	100	0	3	0·06	−0·58	31·2	−5·7	28	− 5
	Shields	62	45	59·9	49·4	54·3	− 3·9	88	0	2	0·05	−0·66	*	*	*	*
	Scarborough ℳ	63	45	59·2	50·3	54·4	− 5·1	87	0	2	0·06	−0·62	*	*	*	*
	York	71	44	64·6	49·9	56·7	− 3·1	103	0	2	0·03	−0.57				
	Spurn Head	61	49	59·3	52·0	55·4	− 4·8	94	0	1	0·01	−0·41	*	*	*	*
3. ENGLAND, E.	Hillington ℳ	74	50	64·3	51·6	57·5	− 3·4	109	0	0	—	−0·70	30·6	−12·7	28	−15
	Yarmouth	62	54	61·0	54·6	57·6	− 3·4	109	0	0	—	−0·70	*	*	*	*
	Geldeston	63	51	61·1	52·4	56·5	− 4·7	102	0	0	—	−0·53	28·0	−18·2	26	−17
	Cambridge	70	48	67·4	50·7	58·5	− 3·4	116	0	0	—	−0·52	39·2	− 4.4	36	− 4
	Rothamsted	68	48	65·1	50·6	57·4	− 3·0	108	0	0	—	−0·60	45·9	?	42	?
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	70	39	65·4	47·9	56·0	− 4·3	98	0	0	—	−0·61	*	*	*	*
	Loughborough	70	42	66·1	50·1	57·5	− 3·9	109	0	1	0·01	−0·56	*	*	*	*
	Stamford (Ketton Hall)	71	43	65·7	49·9	57·3	− 4·1	107	0	1	0·02	−0·56	*	*	*	*
	Cheadle ℳ	67	46	63·0	48·7	55·4	− 2·6	94	0	0	—	−0·72	*	*	*	*
	Churchstoke ℳ	69	43	64·6	49·1	56.3	− 1·8	100	0	0	—	−0·65	43·9	+ 4·2	40	+ 4
	Hereford ℳ	68	47	65·4	50·4	57·4	− 3·0	108	0	0	—	−0·57	*	*	*	*
	Cirencester	67	47	65·1	50·3	57·2	− 2·2	105	0	0	—	−0·73	53·9	+12·9	50	+12
	Oxford	72	48	67·1	49·3	57·6	− 3·5	109	0	0	—	−0·60	41·9	− 1·0	39	0
5. ENGLAND, S.	London	75	50	70·1	53·3	61·1	− 1·6	134	0	0	—	−0·52	41·8†	+ 2·0†	39†	+ 2†
	North Foreland	62	54	60·7	54·7	57·5	− 4·2	109	0	2	0·37	?	*	*	*	*
	Strathfield Turgiss ℳ	74	43	70·0	51·9	60·4	− 1·0	129	0	0	—	−0·54	*	*	*	*
	Dungeness	67	55	65·6	56·1	60·5	− 1·5	130	0	1	0·27	−0·20	*	*	*	*
	Hastings (St. Leonards)	70	50	67·1	52·5	59·3	− 2·8	121	0	1	0·17	−0·36	65·7	+15·8	61	+15
	Southampton	77	50	72·1	53·1	61·9	− 0·3	139	0	2	0·03	−0·64	57·1	+10·1	53	+ 9
	Hurst Castle	73	52	69·1	54·4	61·2	− 0·8	134	0	2	0·39	−0·11	*	*	*	*
	Stowell ℳ	71	48	67·5	51·4	58·9	− 1·2	118	0	0	—	?	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	69	48	65·8	49·7	57·2	+ 0·1	106	0	1	0·15	−1·10	*	*	*	*
	Glasgow	71	49	68·0	50·5	58·6	+ 1·2	116	0	0	—	−0·85	53·4	+25·0	47	+22
	Ardrossan	67	49	65·1	50·3	57·2	− 1·0	106	0	0	—	−0·70	*	*	*	*
	Glenlee ⚓	73	41	68·2	45·0	55·8	− 1·1	97	0	0	—	−1·06	*	*	*	*
	Douglas (Isle of Man)	68	46	64·3	49·9	56·6	− 0·8	102	0	1	0·03	−0·75	44·8	+ 3·3	40	+ 2
7. ENGLAND, N.W.	Newton Reigny	72	42	67·8	46·9	56·6	− 0·4	102	0	0	—	−0·78	46·6	+11·4	42	+ 9
	Stonyhurst	71	48	65·8	50·1	57·4	− 1·5	108	0	0	—	−1·08	48·2	+13·0	43	+11
	Blackpool ℳ	69	43	65·7	48·5	56·5	− 3·4	102	0	1	0·04	−0·74	39·7	+ 0·7	36	0
	Manchester	71	48	66·0	49·8	57·3	− 1·3	107	0	1	0·02	−0·92	*	*	*	*
	Liverpool Obsy. (Bidston)	69	49	65·9	51·1	58·0	− 2·0	112	0	1	0·01	−0·69	*	*	*	*
	Llandudno ℳ	68	48	64·1	50·4	56·8	− 3·5	104	0	1	0·04	−0·61	55·1	+18·8	51	+17
	Holyhead	67	52	62·4	53·0	57·4	− 2·1	108	0	1	0·04	−0·56	*	*	*	*
8. ENGLAND, S.W.	Llandovery	77	45	71·4	48·0	58·9	− 0·5	118	0	0	—	−1·00	*	*	*	*
	Pembroke	68	50	64·7	52·6	58·2	− 0·8	113	0	0	—	−0·62	76·3	+31·6	71	+29
	Arlington (N. Devon)	70	49	67·0	50·7	58·3	− 0·3	114	0	0	—	−1·15	*	*	*	*
	Cullompton ℳ	71	50	68·7	51·9	59·7	+ 0·1	124	0	0	—	−0·68	47·1	+ 8·3	44	+ 7
	Falmouth	69	53	66·5	56·4	61·1	+ 0·9	134	0	0	—	−0·85	62·4	+16·7	58	+13
	Plymouth															
	Prawle Point	70	53	66·9	55·0	60·5	+ 0·9	130	0	2	0·10	−0·45	*	*	*	*
9. IRELAND, N.	Malin Head	62	52	60·3	53·4	56·6	− 1·2	102	0	1	0·07	?	*	*	*	*
	Londonderry	?	47	?	50·3	?	?	?	0	1	0·01	−0·87	*	*	*	*
	Edenfel (Omagh)	70	39	67·1	47·6	56·7	− 0·8	103	0	0	—	−0·80	*	*	*	*
	Mullaghmore	67	47	63·7	53·3	58·1	− 0·4	113	0	1	0·07	−0·83	*	*	*	*
	Belmullet	69	52	64·6	53·4	58·6	+ 0·1	116	0	1	0·06	?	*	*	*	*
	Markree Castle	69	40	64·9	48·3	56·0	− 0·7	98	0	1	0·16	−0·56	34·4	+ 6·4	31	+ 4
	Brookeborough	75	40	67·0	48·9	57·3	0·0	107	0	1	0·02	−0·88	*	*	*	*
	Armagh	70	46	65·5	48·4	56·4	− 1·5	101	0	1	0·01	−0·76	38·9	+10·5	35	+10
	Donaghadee	64	51	62·4	54·1	58·0	+ 0·8	112	0	1	0·01	−0·72	*	*	*	*
	Edgeworthstown	71	44	65·9	48·0	56·3	− 1·3	109	0	0	—	−0·87	*	*	*	*
10. IRELAND, S.	Dublin	66	48	63·8	50·7	56·8	− 3·1	104	0	1	0·01	−0·58	54·5	+19·3	50	+16
	Parsonstown	71	41	68·9	46·7	57·0	− 1·9	105	0	1	0·03	−0·69	47·3	+25·2	43	+15
	Kilkenny	71	45	68·9	48·4	57·9	− 0·7	111	0	0	—	−0·63	*	*	*	*
	Waterford	73	43	69·7	47·9	58·0	− 1·5	112	0	0	—	−0·70	*	*	*	*
	Roche's Point	72	51	66·1	52·4	58·8	− 1·3	118	0	0	—	−0·77	*	*	*	*
	Valencia	72	49	69·6	52·3	60·4	+ 1·5	129	0	0	—	−0·94	62·1	+27·4	58	+25
	Killarney	73	46	70·5	49·2	59·1	+ 0·2	120	0	1	0·10	?	*	*	*	*
	Foynes	74	49	71·2	53·0	61·5	+ 3·1	137	0	0	—	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	68	53	64·9	55·6	59·9	− 0·7	125	0	0	—	−0·59	*	*	*	*
	Jersey												39·5	−14·1	37	−14

Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked ⚓ with the Scottish Meteorological Society.

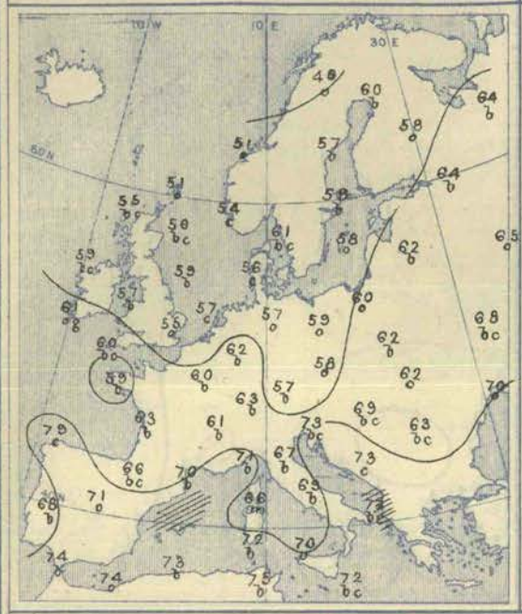
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory and the Meteorological Office, Victoria Street. For additional Reports of Sunshine see last page. NOTE.—It will be observed that Edenfel (Omagh) has been added to the list of stations in "Ireland, N."

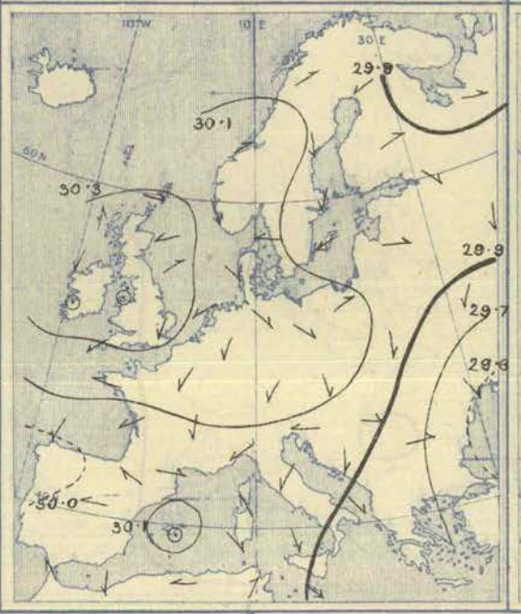
III.—SUMMARY OF WEATHER OVER EUROPE.

Sunday, 24th July.

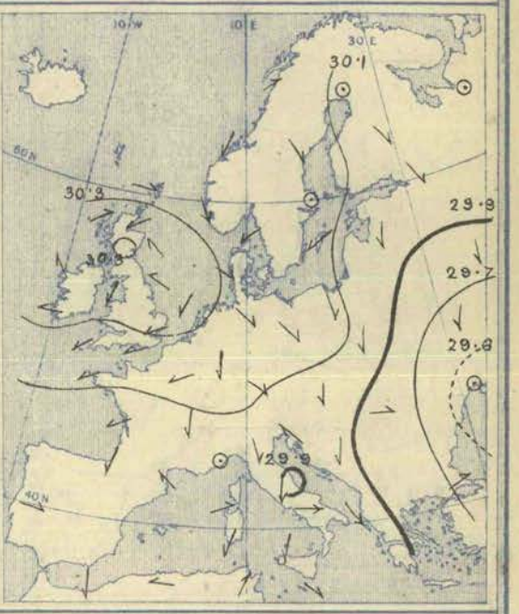
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning continuing fine and bright over the Mediterranean, France, and a great deal of central Europe; fair generally over the United Kingdom and Scandinavia, but dull in many places. Thunderstorm at Biarritz later, and slight rain at Stockholm, but remaining dry over the other parts of western Europe, and in many places cloudy; heavy rain falling in the south of Russia.

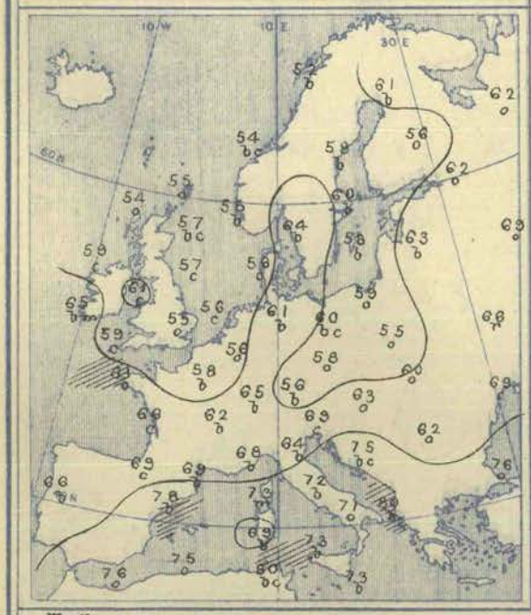
Temperature again exceeding 70° over south-eastern and southern Europe, and the Mediterranean (79° at Corunna), and above 60° over the greater part of France, Germany, and Russia; below 60° over the northern half of our Islands and in Scandinavia, and as low as 48° at Bodö, 51° at Christiansund and Sumburgh Head, 54° at Skudesnaes and Nairn. Rising later to between 80° and 93° over France, and to a little above 70° in some parts of our Islands, Denmark, and Sweden, but failing to reach 60° at Sumburgh Head and Stornoway; exceeding 80° at most of the Spanish and Italian stations, and exceeding 90° in central Algeria.

Wind extremely light and anticyclonic over the United Kingdom, North-Easterly to North-Westerly to the eastward of the North Sea, but South-Westerly in the north-west of Norway; North-Easterly to Easterly over the south and west of France and the Iberian Peninsula, Easterly over southern Russia, North-Westerly to Westerly over the Adriatic and Balkan Peninsula. No important change occurring during day.

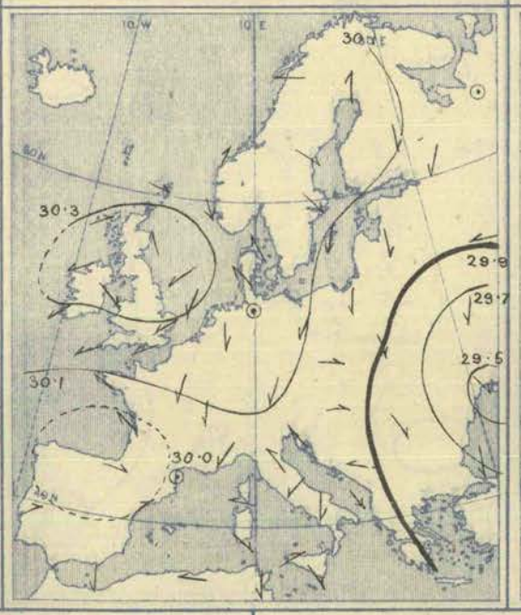
Barometer highest, 30·4 ins. to 30·2 ins. in an anticyclone covering the British Islands, the North Sea, west of Norway, and north Germany. Lowest, 29·6 ins. and less to 29·7 ins. in large but not deep depression covering the Black Sea and south of Russia, 29·9 ins. and less to 30·0 ins. in a shallow system over the north of Russia and a "V" shaped secondary over Finland. Falling slowly in our Islands and France later, but no important change occurring in general distribution of pressure.

Monday, 25th July.

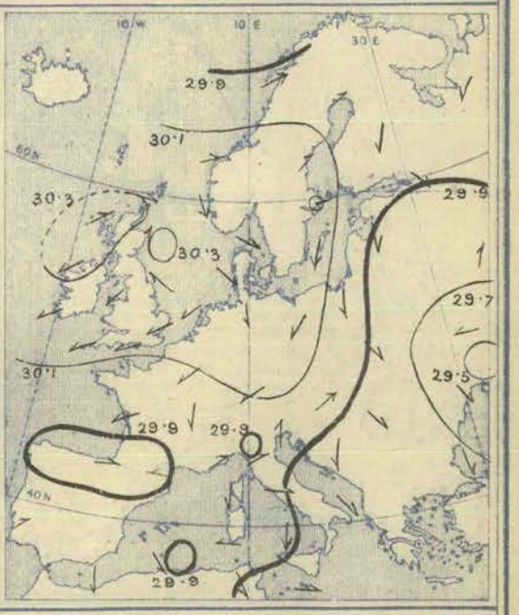
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather fine over the greater part of Europe, but cloudy or overcast in the south and east of England, as well as on our extreme north and north-west coasts; dull also over Russia and Austria, with rain at Kiev. No important change occurring during day, but a thunderstorm experienced at Biarritz, and heavy rain at Archangel and in some parts of Austria later.

Temperature highest, 80° at Brindisi and La Calle, 78° at Barcelona, 76° at Nemours and Constantinople, and 75° at Lesina, Oran, and Algiers; above 70° at most of the Mediterranean stations, and above 65° over southern and eastern Europe generally. Lowest, 52° at Bodö, 53° at Leith and Oxford, and 54° at Christiansund, Loughborough, and Cape Gris Nez; below 60° in most of the north-western and central countries. Daily maxima below 60° at several of our northern and eastern stations, and below 65° on our south and south-east coasts; thermometer exceeding 75° in many parts of France, and reaching 91° at Rochefort. Over Algeria the maxima ranged between 90° and 102°.

Wind light to moderate from the Eastward or North-Eastward over the greater part of England, Ireland, and France, but Southerly or South-Westerly in the north of Scotland; moderate to strong from the Northward over the Baltic, Germany, and the south of Scandinavia, as well as in the south of Italy; light from the South-Eastward in Denmark; variable in the south of Russia, and also in Spain and Algeria. No important change occurring during day.

Barometer highest, 30·3 ins. and upwards over all but the southern parts of the United Kingdom, 30·1 ins. and upwards in a large anticyclone covering the whole of north-western Europe. Lowest, 29·5 ins. and less in a depression lying over the northern part of the Black Sea, 30·0 ins. and upwards in a large shallow disturbance lying over the south-west of France and the northern parts of Spain. Slight fall of barometer taking place during day in most parts of western Europe, but general distribution of pressure remaining unchanged.

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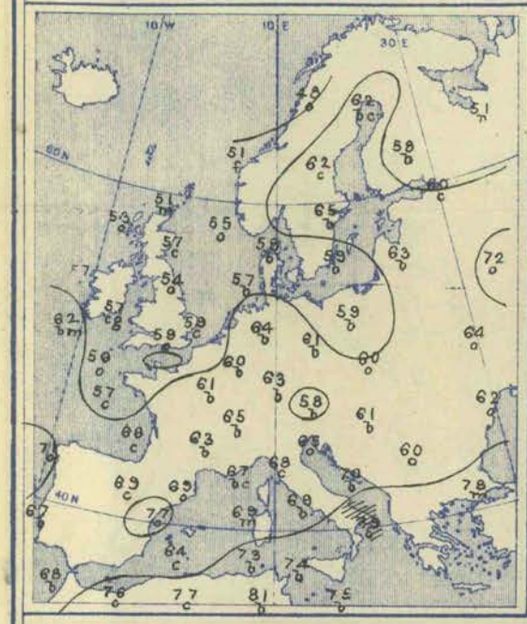
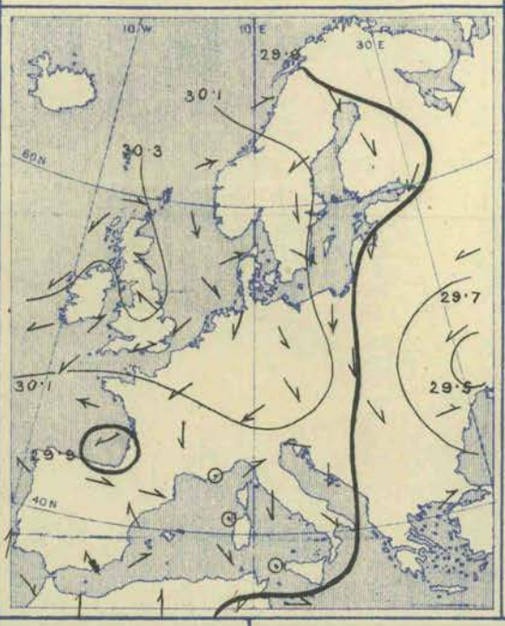
III.—SUMMARY OF WEATHER OVER EUROPE.

Tuesday, 26th July.

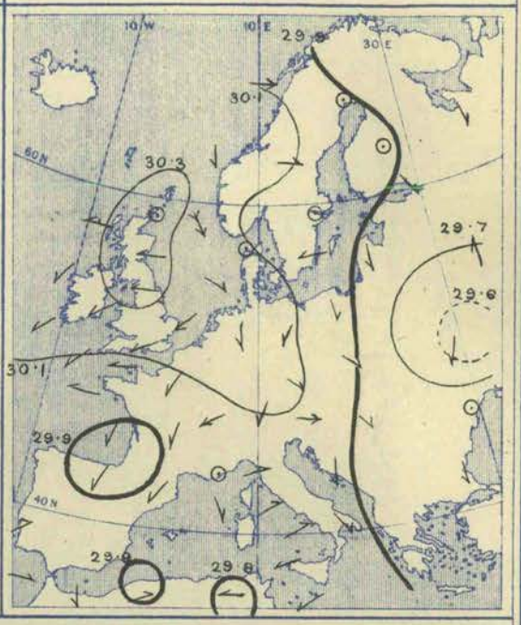
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine generally over all the northern and north-western countries, but cloudy in places; somewhat unsettled in the south-west of France and north of Spain, very dull and unsettled over Russia, Poland, and Hungary, with rain at Archangel, Lemberg, and Cracow. Remaining fair over the British Isles, North Sea, and neighbourhood during the day, but thunder and lightning setting in over the south-west of France.

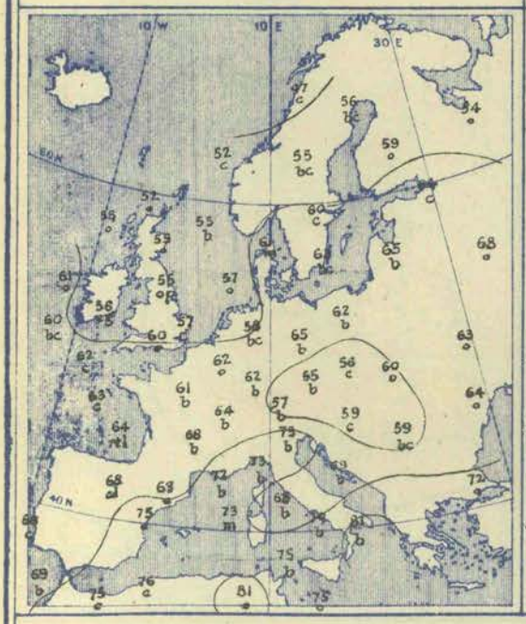
Temperature exceeding 80° at Tunis only, but exceeding 70° at most of the stations over southern and south-eastern Europe, as well as at Kharkov and Moscow; below 60° over the greater part of the British Islands and Norway, and as low as 48° at Bodö, 51° at Archangel, Christiansund, and Sumburgh Head, 53° at Stornoway and Parsonstown. Rising later to 60° and more in our Islands, to 70° and more at Valencia (Ireland), London, Yarmouth, and many Continental stations, and to 80° or more over southern Europe generally; highest readings of all, 89° at Limoges, and 88° at Gap, Florence, and Palermo.

Wind strong Westerly in Norway. Northerly over Sweden, Finland, the Baltic, and Germany; North-Westerly over Austria, but North-Easterly to Easterly over eastern Germany, France, England, and Ireland (very fresh in the English Channel), and South-Easterly on the western shores of the Mediterranean and in Portugal. No important change occurring during day.

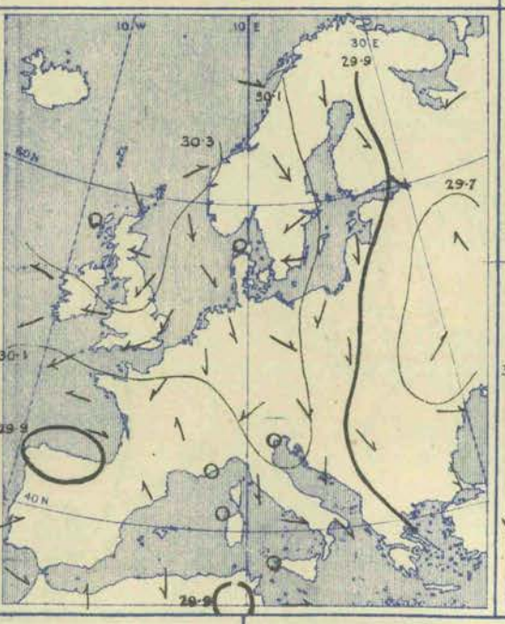
Barometer highest, 30·3 ins. to 30·1 ins. over the British Islands, the North Sea, Germany, Denmark, and southern half of Scandinavia. Lowest, 29·5 ins. and less in a depression over the south of of Russia, 29·9 ins. and less in another over the south-west of France; shallow local disturbances over Sweden and the Irish Sea. Depression over the south-west of France subsequently spreading eastwards; no decided change occurring elsewhere.

Wednesday, 27th July.

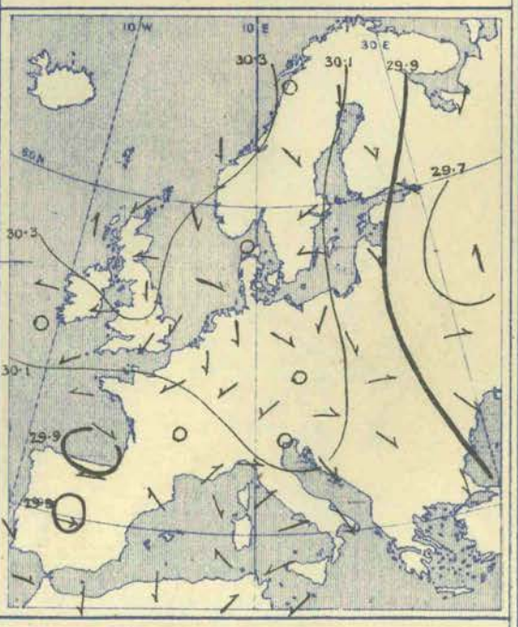
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather fine and bright over a considerable portion of the Continent, and fair in most parts of the United Kingdom, but dull at several of the northern, eastern, and central stations, with passing showers at Shields; dull also in Russia. Thunder and lightning reported in the south-west of France. Sky clearing later in many parts of Great Britain, but slight showers falling in the Channel Islands, and lightning seen at Scilly at night; thunderstorms occurring at many of the French stations, with heavy rain (1·7 ins.) at Chassiron.

Temperature highest, 81° at Brindisi, La Calle, and Aumale, 80° at Tunis, and 76° at Algiers; above 70° at most of the Mediterranean and Adriatic stations, and above 65° over the central and southern parts of France and Russia. Lowest, 47° at Bodö, 52° at Christiansund and Sumburgh Head, 54° at Archangel and Oxford, and 55° at several of our more northern and central stations. Daily maxima below 70° in nearly all parts of our Islands, and below 65° at most of our northern and eastern stations; thermometer exceeding 80° in France, Spain, and Italy, the highest readings of all being 91° at Clermont, and 90° at La Coubre, Limoges, and Gap.

Wind Easterly or North-Easterly over the greater part of our Islands and France, fresh or strong in force at the Channel stations; moderate to strong from the Northward over Scandinavia, Denmark, the Baltic, Germany, and northern Russia; variable over Austria, northern Italy, and Algeria; light from the Westward over the south-west of France, and from the South-Westward over the south of Russia. No important change occurring during day.

Barometer highest, 30·3 ins. and upwards in an anticyclone lying over the more northern parts of our Islands and the North Sea. Lowest, 29·7 ins. and less in an elongated depression lying over Russia, 29·9 ins. and less in another disturbance lying over the southern part of the Bay of Biscay, and also in a small system lying near Tunis. Russian depression subsequently moving slowly north-eastwards; no important change occurring elsewhere.

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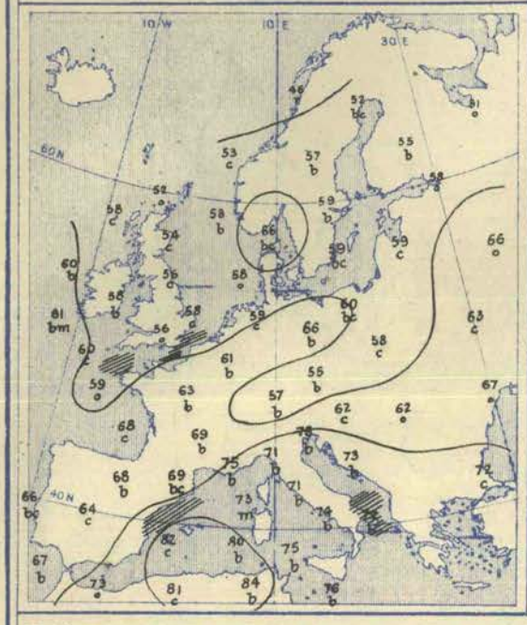
III.—SUMMARY OF WEATHER OVER EUROPE.

Thursday, 28th July.

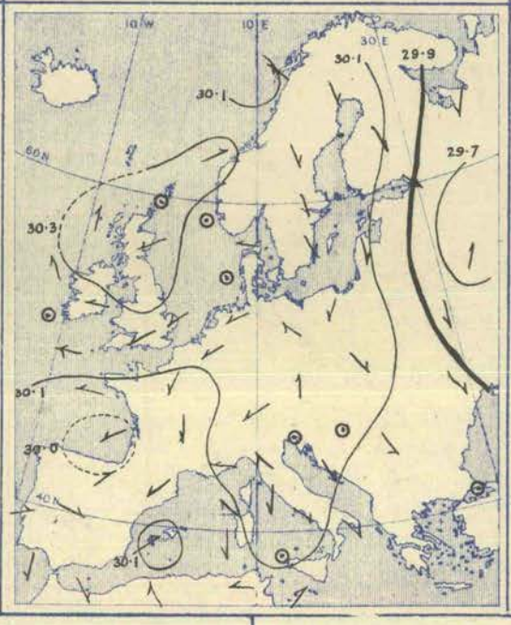
Temperature and Weather.

8 a.m.

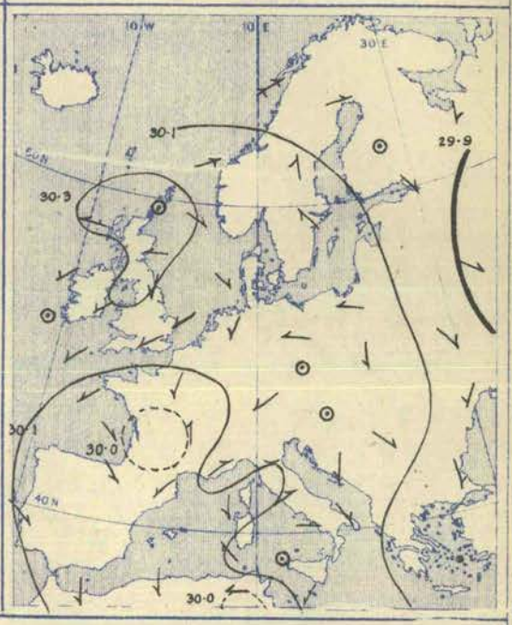


Barometer and Wind.

8 a.m.



6 p.m.



Weather fine and bright over Finland, Sweden, the Baltic, and the greater part of central and southern Europe; fair over the United Kingdom, but temporarily overcast in many of the central districts, and hazy at the Channel stations; dull in Russia, and also in Algeria. Thunderstorms occurring later at Biarritz and Paris, as well as over the western part of the English Channel, with heavy rain at Jersey; lightning seen at the North Foreland and also at Lyons.

Temperature highest, 84° at La Calle, 82° at Palma, 81° at Aumale, and 80° at Cagliari; above 75° at most of the Mediterranean and Adriatic stations, and above 65° over the southern parts of France. Lowest, 46° at Bodö, 51° at Archangel, 52° at Haparanda and Sumburgh Head, and 53° at Ulcaborg, Christiansund, and Pembroke. Daily maxima below 60° over some parts of our east and south-east coasts, but thermometer reaching 70° at Valencia Island, 71° at Hurst Castle, and 72° in London; exceeding 80 over France, Belgium, and the greater part of southern Europe, the highest readings of all being 94° at Gap, and 95° at Florence.

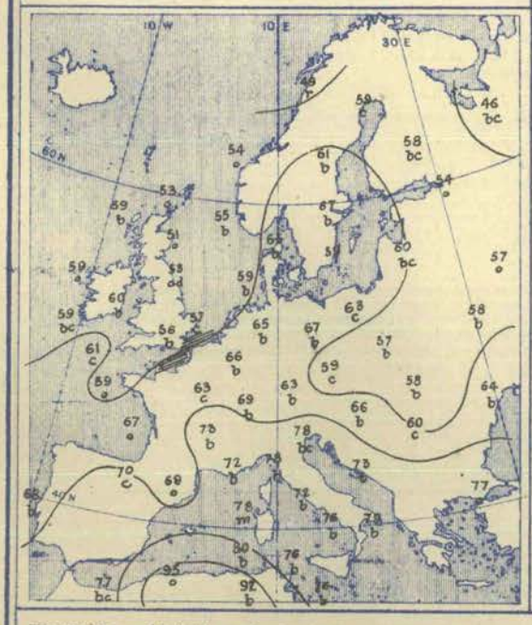
Wind Easterly or North-Easterly over our Islands, France, the Netherlands, and western Germany; light in force generally, but fresh or strong at the Channel stations; light or moderate from the Northward over Sweden, Russia, and the Baltic; North-Westerly over southern Italy; variable over Spain, Algeria, and northern Italy. Shifting to the South-Westward in the west of Norway, and increasing to a gale at Bodö.

Barometer highest, 30·3 ins. and upwards over the northern parts of our Islands and the North Sea, 30·2 ins. and upwards in a long anticyclone covering nearly the whole of western and central Europe, and extending southwards over Italy. Lowest, 29·7 ins. and less in a depression lying over central Russia, 30·0 ins. and less in a shallow system lying over the Bay of Biscay. Russian depression subsequently moving away to the eastward; shallow disturbance over Bay of Biscay advancing over the southern parts of France.

Friday, 29th July.

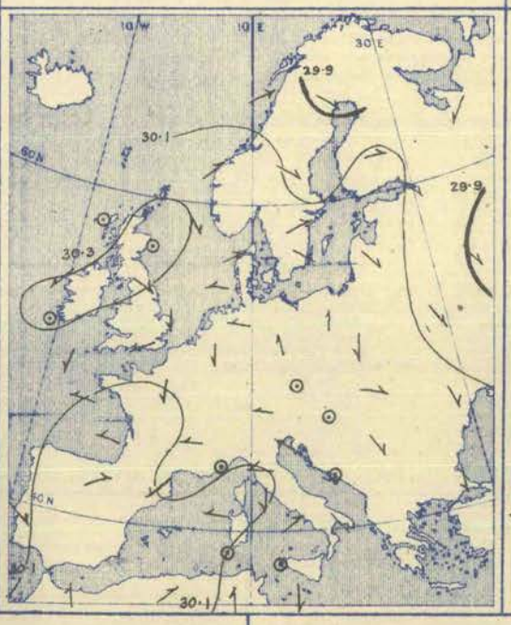
Temperature and Weather.

8 a.m.

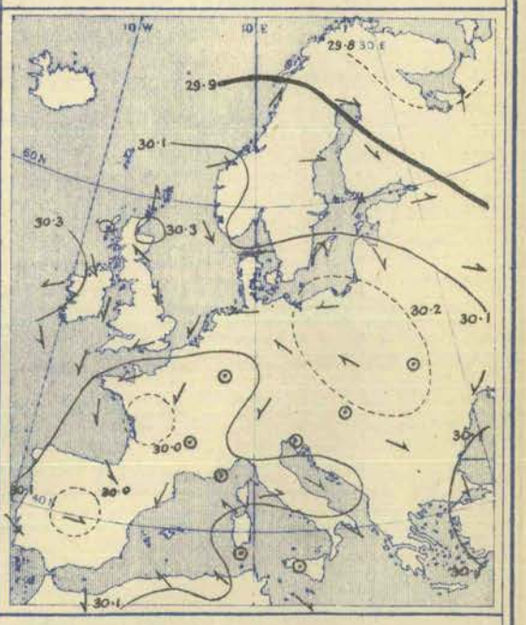


Barometer and Wind.

8 a.m.



6 p.m.



Weather fine and bright over by far the greater part of Europe, but dull over the northern and central parts of Great Britain, with rain at Shields and York; dull also in the west of Norway, with rain at Bodö. Thunderstorms occurring later in the west of France and the extreme south and south-east of England, with heavy rain at Brest (1·3 inches), rain setting in the far north also.

Temperature very high in Algeria; 95° at Algiers, 92° at La Calle, above 75° over the Mediterranean and Adriatic generally, and 86° at Cagliari. Lowest, 46° at Archangel, 49° at Bodö, 51° at Aberdeen and Parsonstown, and 52° at Leith; below 55° over the northern and central parts of the United Kingdom generally. Daily maxima not exceeding 60° on the east coasts of Great Britain, but thermometer rising above 70° at one or two of our southern stations, and reaching 78° in London; exceeding 80° over France and Belgium (91° at Lyons), 90° and more over Italy, 111° at Biskra, 120° at Tunis.

Wind North-Easterly or Easterly over the greater part of our Islands, France, and the Netherlands; light in force generally, but fresh at some of the Channel stations; light to moderate from the South-Westward in the west of Norway, and from the North-Westward or Northward over Finland, Russia, Austria, and the southern parts of Italy; variable or Westerly in Spain and the south-west of France; Southerly (South-Westerly to South-Easterly) in Algeria. Subsequently becoming variable on our north and north-west coasts.

Barometer highest, 30·3 ins. and upwards in a narrow band stretching from south-west to north-east across Ireland and Scotland. Lowest, 29·9 ins. and less in two shallow depressions, one lying over Lapland, and the other over central Russia; 30·0 ins. and less in a very slight disturbance lying over the south-eastern part of the Bay of Biscay. Small disturbance subsequently moving northwards; barometer falling in most parts of western Europe.

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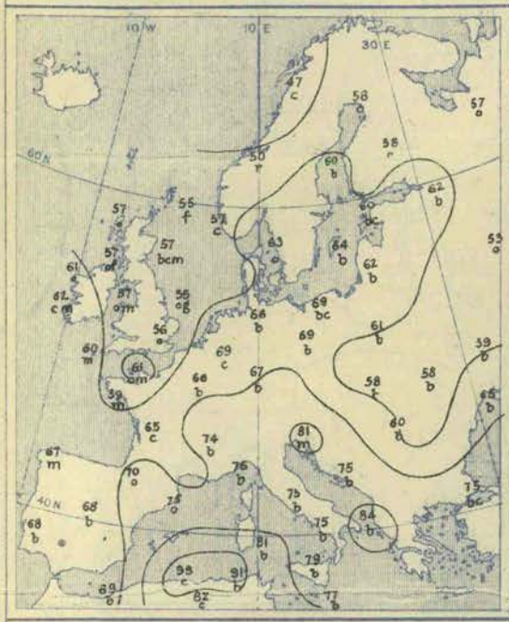
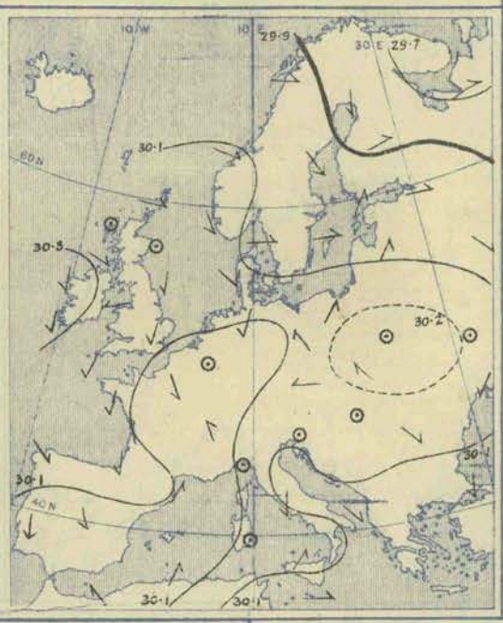
III.—SUMMARY OF WEATHER OVER EUROPE.

Saturday, 30th July.

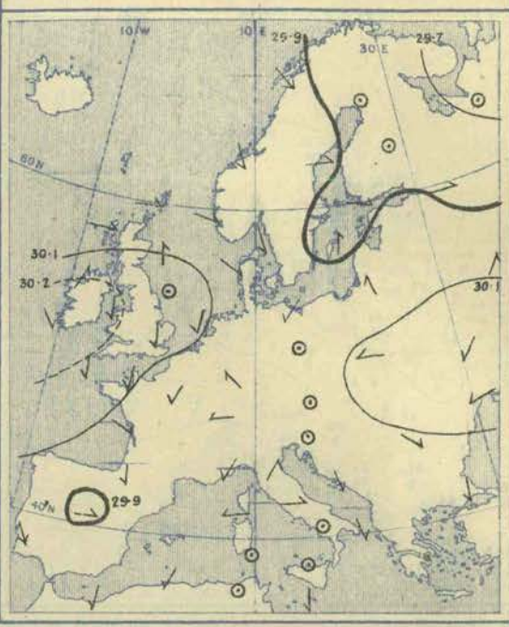
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather cloudy over the greater part of the United Kingdom, with mist or fog in many places, and with rain at some of the eastern and southern stations; fine and bright over the Continent generally, but dull in the west of France and the north of Spain. Weather improving later in the east and south of our Islands, but rain falling in the north and north-west. Thunderstorms occurring at several of the French stations, with heavy rain in places.

Temperature highest, 99° at Algiers, 91° at La Calle, 86° at Tunis, and 84° at Brindisi; above 80° at several of the Mediterranean and Adriatic stations, and above 70° over the south of France. Lowest, 47° at Bodö, 50° at Christiansund, 52° at Leith, Shields, and Donaghadee, and 53° at Moscow; below 55° in many of the more central parts of the United Kingdom. Daily maxima a little above 70° in many parts of Great Britain, even as far north as Nairn; thermometer exceeding 80° in several parts of France and Germany, and exceeding 90° at some of the Spanish and Italian stations, the highest readings of all being 100° at Palermo, and 95° at Madrid, Florence, and Rome.

Wind light to moderate from the Northward or North-Eastward over Ireland, England, the Netherlands, France, and Spain; moderate to strong from the Northward in Scandinavia; light from the Westward over Denmark and the south of Sweden, and from the South-Westward over the Baltic; variable over Germany, Austria, and Italy; Southerly or South-Westerly in Algeria. Light Westerly or South-Westerly breezes setting in later in the north of our Islands; no important change occurring elsewhere.

Barometer highest, 30·2 ins. and upwards in an anticyclone extending from the Atlantic over the west of Ireland, 30·2 ins. and upwards in another system lying over western Russia. Lowest, 29·7 ins. and less in a depression lying over the White Sea and its immediate neighbourhood, 30·1 ins. and less in a large complex area spreading northwards from Spain, Algeria, and the western parts of the Mediterranean, to France and the Netherlands. New depression beginning to approach our northern coasts in evening, and small disturbance appearing over central Spain.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze: and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During nearly the whole of the week a large anticyclone lay over north-western and central Europe, its central portion being situated for the most part over our Islands or their immediate neighbourhood. The winds in these regions were, therefore, light and somewhat variable, and the weather fair and dry, but with a great deal of cloud in the more northern and central parts of the United Kingdom. A series of large but shallow depressions were observed during the greater part of the time moving in a southerly direction over Russia, while smaller disturbances were reported over France and Spain, the latter occasioning frequent thunderstorms in France, and occasional storms over the Channel and extreme south of England. Temperature was rather low in the regions embraced by the anticyclone, but high over the southern countries, and especially high in Algeria, where the morning readings at the end of the week were considerably above 90°.

BRIGHT SUNSHINE Values for the Week in addition to those found on page 176.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	35·9	?	32	?	EASTBOURNE	61·0	?	56	?
OSWALDKIRE (Yorkshire)	32·7	?	29	?	TENBY	71·7 *	?	66 *	?
WORKSOP	32·2	− 4·1	30	− 3	NEWQUAY	72·3	?	68	?
THURCASTON (Leicestershire)	38·2	+ 0·8	35	+ 1	TORQUAY	58·5 *	?	55 *	?
MARGATE	32·5	?	30	?	ARLEY COTTAGE (County Cavan)	53·9	?	49	?
WESTBOURNE (Sussex)	59·6 *	?	55 *	?	GUERNSEY	42·3 *	?	40 *	?
BRIGHTON	61·0	?	56	?					

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.
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VOL. IX. No. 31.] *Third Series.* WEEK ENDING SATURDAY, 6TH AUGUST, 1892. [*Price 6d.* [*Annual subscription, post paid*, £1 10*s.* 0*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years' observations (1871-90). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the ten years 1881-90. RAINFALL.—*The Mean amounts* are those for the corresponding periods in the twenty-five years 1866-90, but the *Mean numbers of Rainy Days* are those for the ten years 1881-90, only. BRIGHT SUNSHINE.—*The Mean values* employed are those for the corresponding periods in the ten years 1881-90.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 182.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1892. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	70	43	58·8	48·4	53·3	2 below.	79	− 3	0	0	1037	− 16	754	+212
	1. SCOTLAND, EAST -	74	41	63·6	49·3	56·0	1 below.	98	− 7	0	0	1248	−142	819	+241
	2. ENGLAND, N.E. - -	71	46	62·8	50·8	56·4	3 below.	101	−13	0	0	1342	−113	684	+186
	3. ENGLAND, EAST -	74	38	66·7	49·0	57·3	4 below.	107	−19	0	0	1609	−106	771	+210
	4. MIDLAND COUNTIES	73	36	63·5	49·3	57·4	3 below.	108	−13	0	0	1643	− 71	802	+250
	5. ENGLAND, SOUTH -	77	37	68·8	53·7	60·8	1 below.	132	0	0	0	1765	− 85	554	+138
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	68	41	62·9	51·5	56·8	0 (average)	104	+ 1	0	0	1355	− 71	610	+193
	7. ENGLAND, N.W. -	68	43	62·4	52·8	57·3	2 below.	107	− 7	0	0	1467	− 65	579	+165
	8. ENGLAND, S.W. -	77	35	67·4	53·0	59·8	0 (average)	125	+ 5	0	0	1695	− 23	433	+117
	9. IRELAND, NORTH -	70	38	62·4	53·3	57·6	0 (average)	109	+ 4	0	0	1479	− 62	484	+122
	10. IRELAND, SOUTH -	74	47	66·4	55·6	60,7	2 above.	131	+17	0	0	1733	− 25	410	+132
	— CHANNEL ISLANDS -	69	50	66·7	56·9	61·5	0 (average)	137	+ 5	0	0	1917	+ 30	164	+ 42

Rainfall.

	DISTRICTS. (See p. 182.)	For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1892. Number of Rainy Days.	Difference from Mean.	Total Fall.	Difference from Mean.
			10ths of In.	10ths of In.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	6	13	4 more.	143	+ 2	24·5	− 1·7
	1. SCOTLAND, EAST -	4	3	4 less.	113	− 1	13·9	− 3·4
	2. ENGLAND, N.E. - -	3	2	5 less.	112	+ 7	13·2	− 1·1
	3. ENGLAND, EAST -	2	2	4 less.	105	+ 2	12·7	− 1·6
	4. MIDLAND COUNTIES-	4	3	4 less.	97	− 5	12·5	− 3·3
	5. ENGLAND, SOUTH -	3	1	4 less.	83	−16	9·8	− 5·2
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	4	4	5 less.	108	−14	21·3	− 5·8
	7. ENGLAND, N.W. - -	4	2	6 less.	111	0	16·8	− 1·4
	8. ENGLAND, S.W. - -	2	2	6 less.	99	−15	13·5	− 8·0
	9. IRELAND, NORTH -	5	4	4 less.	119	−12	18·2	− 1·8
	10. IRELAND, SOUTH -	4	6	1 less.	106	−14	18·6	− 3·1
	— CHANNEL ISLANDS -	0	—	5 less.	98	−22	13·2	− 4·0

Bright Sunshine.

	DISTRICTS. (See p. 182.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1892. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	22	− 4	20	− 4	853	+ 42	29	+ 1
	1. SCOTLAND, EAST -	35	+ 5	32	+ 3	959	+ 19	33	0
	2. ENGLAND, N.E. - -	25	− 9	23	− 9	914*	+ 61	32	+ 2
	3. ENGLAND, EAST -	39	− 4	37	− 5	1066	+ 42	37	+ 1
	4. MIDLAND COUNTIES-	34	− 5	32	− 5	1009	+101	35	+ 3
	5. ENGLAND, SOUTH -	44	+ 2	42	0	1184	+206	42	+ 7
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	45	+ 9	42	+10	1022	+ 96	35	+ 3
	7. ENGLAND, N.W. - -	34	− 3	31	− 3	1030	+114	36	+ 4
	8. ENGLAND, S.W. - -	44	0	42	+ 2	1206	+136	42	+ 4
	9. IRELAND, NORTH -	25	− 7	23	− 5	921	+ 65	32	+ 2
	10. IRELAND, SOUTH -	21	−14	19	−14	1012	+ 34	35	+ 1
	— CHANNEL ISLANDS -	65	+10	63	+16	1393	+148	49	+ 5

Bright Sunshine.—For several of the stations there are no "mean" values available, and the "difference from the mean" in some of the districts is consequently that of only a few of the stations.

General Remarks.

Weather during this week was moderately fair; very little rain fell over the greater part of England, but in Ireland and most parts of Scotland the sky was generally cloudy, and rain, though not heavy, was of rather frequent occurrence.

Temperature was a little above the mean in Ireland S., and equalled the mean in several of the other western districts, but in all the "wheat producing" districts and in England N.W., it was below—the deficit being as much as 4° in England E. The highest of the maxima were recorded either on July 31st or August 6th, and ranged from 77° in England S. and S.W., to 69° in the Channel Islands, and to 68° in Scotland W. and England N.W. The absolute minima, which were recorded very generally during the night of the 4th-5th, were very low for the time of year: in England S.W. (at Llandovery) the sheltered thermometer fell to 35°, in England S. (at Strathfield Turgiss) to 37°, in England E. the Midland Counties, and Ireland N. to 38°, and in most other districts to between 41° and 43°. In England N.E., however, the lowest temperature was 46°, in Ireland S. 47° and in the Channel Islands 50°.

Rainfall exceeded the mean in Scotland N., but in all other districts there was a deficit, and in the east and south of England the fall was very slight.

Bright Sunshine was less prevalent than during the preceding week in all districts excepting the Channel Islands, and in all but a few cases it was below the mean. The percentage of the possible amount ranged from 19 in Ireland S., 20 in Scotland N., and 23 in England N.E. and Ireland N., to 42 in England S.W., England S., and Scotland W., and to 63 in the Channel Islands.

Barometer and Wind.—During the greater part of the week the barometer was rather high over the south-western and western parts of the Kingdom, and lowest to the northward and north-eastward. No depressions appeared in our immediate neighbourhood until nearly the end of the period, when the high pressure area moved southwards, a depression travelled eastwards over our northern coasts, and some local minor irregularities appeared over Ireland and England. The wind was mainly Northerly to North-Westerly, and light or moderate in force, but it finally backed to the Westward and South-Westward, and increased somewhat in strength.

* This value has been altered owing to the receipt of further information.

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II.—DATA from which the SUMMARY on page 181 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	57	45	54·9	47·4	50·9	− 2·1	62	0	6	1·20	+0·58	*	*	*	*
	Stornoway	60	45	57·4	48·7	52·8	− 1·9	76	0	6	1·19	+0·44	24·1	− 4·1	22	− 4
	Wick	63	44	57·9	48·7	53·0	− 2·1	77	0	6	0·80	+0·22	*	*	*	*
	Lairg Ⓢ	64	44	58·7	45·3	51·6	− 3·6	67	0	6	0·92	+0·22	*	*	*	*
	Glencarron Ⓢ	61	43	58·1	47·9	52·7	− 1·8	75	0	7	2·42	+0·94	*	*	*	*
	Fort Augustus Ⓢ	70	44	61·6	50·1	56·0	− 0·5	98	0	5	0·82	+0·12	18·8	?	17	?
	Fort William Ⓢ	66	45	62·0	50·9	56·1	− 0·6	99	0	5	1·65	+0·35	22·9	?	21	?
1. SCOTLAND, E.	Nairn	69	44	62·3	49·7	55·6	− 1·6	95	0	5	0·55	−0·10	*	*	*	*
	Aberdeen	66	45	61·4	50·3	55·5	− 1·5	95	0	4	0·46	−0·25	40·4	+ 4·1	36	+ 2
	Braemar Ⓢ	65	46	60·8	47·9	54·0	− 0·5	84	0	5	0·29	−0·49	26·8†	?†	24†	?†
	Ochtertyre Ⓢ	74	43	67·9	49·3	58·0	+ 1·0	112	0	1	0·21	−0·59	*	*	*	*
	Leith	74	43	67·0	50·3	58·2	− 0·4	113	0	4	0·19	−0·40	*	*	*	*
	Marchmont Ⓢ	65	41	62·3	48·0	54·7	− 2·0	89	0	3	0·21	−0·59	36·0	?	33	?
2. ENGLAND, N.E.	Alnwick Castle	63	46	61·1	51·1	55·8	− 1·6	97	0	3	0·34	−0·37	*	*	*	*
	Durham	71	47	64·5	50·3	57·0	− 1·9	105	0	4	0·08	−0·55	25·7	−10·7	24	− 9
	Shields	68	47	62·1	49·6	55·5	− 2·7	95	0	4	0·14	−0·58	*	*	*	*
	Scarborough ℳ	65	46	61·8	50·5	55·8	− 3·4	97	0	2	0·07	−0·63	*	*	*	*
	York	69	47	64·6	51·0	57·4	− 2·2	108	0	5	0·24	−0.37	26·0	− 8·9	24	− 9
	Spurn Head	66	50	62·4	52·4	57·1	− 2·9	106	0	2	0·04	−0·37	*	*	*	*
3. ENGLAND, E.	Hillington ℳ	72	39	66·6	47·7	56·6	− 4·3	102	0	2	0·06	−0·63	35·1	− 7·5	33	− 6
	Yarmouth	68	46	63·3	50·4	56·6	− 4·5	102	0	3	0·12	−0·56	*	*	*	*
	Geldeston	73	38	67·3	47·9	57·0	− 3·9	105	0	2	0·03	−0·46	41·7	− 3·6	39	− 4
	Cambridge	74	41	68·6	49·3	58·4	− 3·3	115	0	3	0·11	−0·40	37·9	− 4·6	36	− 4
	Rothamsted	73	39	67·4	49·6	58·0	− 2·4	112	0	2	0·55	−0·04	42·7	?	40	?
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	70	43	66·6	47·7	56·6	− 3·3	102	0	3	0·09	−0·50	*	*	*	*
	Loughborough	70	39	67·0	48·9	57·4	− 3·8	108	0	2	0·05	−0·53	*	*	*	*
	Stamford (Ketton Hall)	73	39	68·1	47·9	57·4	− 3·8	108	0	2	0·06	−0·44	*	*	*	*
	Cheadle ℳ	65	44	62·1	49·0	55·2	− 2·7	92	0	4	0·24	−0·50	*	*	*	*
	Churchstoke ℳ	67	40	64·4	48·9	56·1	− 1·9	99	0	4	0·23	−0·43	29·1	− 9·9	27	−10
	Hereford ℳ	72	41	68·9	51·7	59·8	− 0·6	125	0	4	0·11	−0·45	*	*	*	*
	Cirencester	72	38	67·0	49·1	57·5	− 1·8	109	0	5	0·64	−0·10	39·9	− 0·6	38	− 2
	Oxford	73	43	68·1	51·3	59·2	− 2·0	120	0	4	0·61	+0·02	40·8	− 1·9	38	− 2
5. ENGLAND, S.	London	76	45	70·4	52·7	61·0	− 1·5	133	0	4	0·17	−0·34	38·4†	− 0·8†	36†	− 1†
	North Foreland	71	52	65·6	53·3	59·1	− 2·4	120	0	3	0·34	?	*	*	*	*
	Strathfield Turgiss ℳ	76	37	70·3	50·6	59·9	− 1·5	125	0	3	0·22	−0·30	*	*	*	*
	Dungeness	67	53	66·1	55·9	60·7	− 1·4	131	0	3	0·04	−0·43	*	*	*	*
	Hastings (St. Leonards)	68	55	66·9	56·0	61·1	− 1·2	134	0	3	0·06	−0·49	47·1	− 1·4	45	− 1
	Southampton	77	?47	73·2	54·0	63·0	+ 0·6	147	0	2	0·05	−0·60	48·9	+ 2·0	47	+ 2
	Hurst Castle	77	50	69·6	55·3	62·0	0·0	140	0	2	0·07	−0·43	*	*	*	*
	Stowell ℳ	74	43	68·2	51·9	59·6	− 0·3	123	0	3	0·15	?	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	63	47	60·5	50·2	55·0	− 2·0	91	0	6	1·09	−0·13	*	*	*	*
	Glasgow	67	45	63·6	52·0	57·5	+ 0·3	109	0	4	0·27	−0·60	47·5	+18·7	43	+17
	Ardrossan	66	47	62·7	52·7	57·4	− 0·8	108	0	2	0·14	−0·65	*	*	*	*
	Glenlee Ⓢ	68	41	64·7	50·1	57·0	+ 0·2	105	0	5	0·57	−0·51	*	*	*	*
	Douglas (Isle of Man)	66	48	62·8	52·5	57·3	+ 0·1	107	0	2	0·02	−0·78	43·1	+ 2·9	40	+ 3
7. ENGLAND, N.W.	Newton Reigny	65	43	62·6	50·1	56·0	− 0·6	98	0	5	0·36	−0·40	33·9	0·0	31	− 1
	Stonyhurst	65	48	59·9	52·0	55·6	− 3·2	95	0	5	0·32	−0·77	34·5	+ 0·1	32	0
	Blackpool ℳ	65	52	62·4	54·7	58·3	− 1·5	114	0	3	0·11	−0·66	32·3	− 5·8	30	− 5
	Manchester	68	49	63·5	51·7	57·3	− 1·3	107	0	3	0·14	−0·78	*	*	*	*
	Liverpool Obsy. (Bidston)	64	52	61·9	54·0	57·7	− 2·2	110	0	4	0·21	−0·49	*	*	*	*
	Llandudno ℳ	64	52	*63·0	53·5	58·0	− 2·4	112	0	4	0·24	−0·40	33·2	− 2·7	31	− 4
	Holyhead	66	53	63·3	53·9	58·3	− 1·2	114	0	4	0·11	−0·51	*	*	*	*
8. ENGLAND, S.W.	Llandovery	72	35	68·4	48·0	57·6	− 1·7	109	0	3	0·26	−0·76	*	*	*	*
	Pembroke	64	53	63·1	54·7	58·7	− 0·5	117	0	3	0·28	−0·34	32·8	−12·3	31	−12
	Arlington (N. Devon)	67	43	65·4	52·1	58·4	− 0·1	115	0	4	0·47	−0·68	*	*	*	*
	Cullompton ℳ	72	42	70·0	52·6	60·8	+ 1·3	132	0	2	0·22	−0·43	51·1	+11·4	49	+10
	Falmouth	69	49	66·5	55·2	60·5	+ 0·3	130	0	0	—	−0·85	52·3	+ 6·5	50	+ 4
	Plymouth															
	Prawle Point	77	51	70·7	55·6	62·7	+ 3·0	145	0	0	—	−0·53	*	*	*	*
9. IRELAND, N.	Malin Head	62	51	58·7	53·3	55·8	− 1·9	97	0	7	0·50	?	*	*	*	*
	Londonderry	—	49	—	52.6	—	—	—	—	5	0·32	−0·56	*	*	*	*
	Edenfel (Omagh)	65	38	61.7	50·3	55·7	− 1·5	96	0	4	0·10	−0·70	*	*	*	*
	Mullaghmore	64	52	61·3	54·6	57·8	− 0·7	111	0	5	0·29	−0·61	*	*	*	*
	Belmullet	64	54	61·7	56·9	59·2	+ 0·5	120	0	5	0·38	?	*	*	*	*
	Markree Castle	65	46	60·9	52·9	56·7	0·9	103	0	7	1·15	+0·41	24·8	− 3·8	23	− 5
	Brookeborough	68	50	64·5	53·3	58·6	+ 1·3	116	0	2	0·28	−0·61	*	*	*	*
	Armagh	70	47	65·3	51·9	58·2	+ 0·5	113	0	3	0·32	−0·41	19·4	− 7·7	18	− 7
	Donaghadee	66	52	64·0	55·0	59·0	+ 1·2	119	0	4	0·32	−0·43	*	*	*	*
	Edgeworthstown	66	47	63·9	51·1	57·1	− 0·4	106	0	4	0·23	−0·62	*	*	*	*
10. IRELAND, S.	Dublin	68	53	67·0	55·9	61·1	+ 1·4	134	0	4	0·15	−0·45	31·5	− 4·3	29	− 6
	Parsonstown	70	49	66·7	54·1	60·0	+ 1·2	126	0	3	0·38	−0·36	18·7	−13·8	17	−12
	Kilkenny	70	49	67·7	54·7	60·8	+ 2·1	132	0	3	0·22	−0·45	*	*	*	*
	Waterford	74	47	69·1	54·8	61·5	+ 1·9	137	0	3	0·25	−0·48	*	*	*	*
	Roche's Point	72	55	68·7	57·6	62·8	+ 2·7	146	0	2	0·50	−0·28	*	*	*	*
	Valencia	65	53	63·4	56·0	59·5	+ 0·5	123	0	7	1·22	+0·24	12·7	−22·3	12	−23
	Killarney	67	52	64·1	55·7	59·7	+ 0·6	124	0	6	1·54	?	*	*	*	*
	Foynes	66	54	64·7	55·7	59·9	+ 1·6	128	0	5	0·67	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	67	54	65·4	56.7	60·8	+ 0·2	132	0	0	—	−0·58	*	*	*	*
	Jersey	69	50	67·9	57·0	62,1	− 0·8	141	0	0	—	−0·49	65·1	+10·4	63	+10

Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

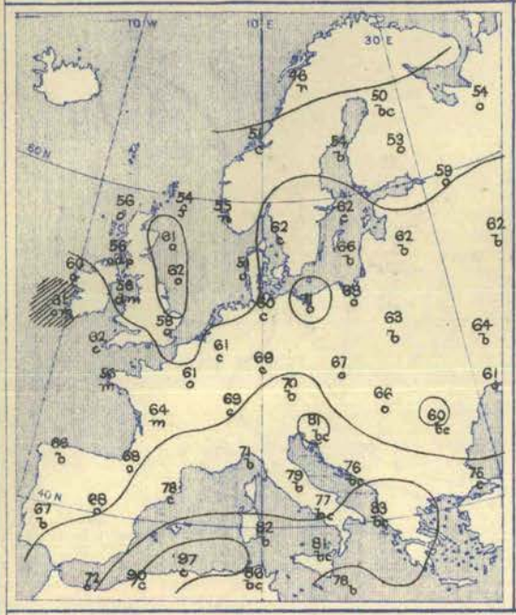
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory and the Meteorological Office, Victoria Street. For additional Reports of Sunshine see last page. NOTE.—It will be observed that Edenfel (Omagh) has been added to the list of stations in "Ireland, N."

III.—SUMMARY OF WEATHER OVER EUROPE.

Sunday, 31st July.

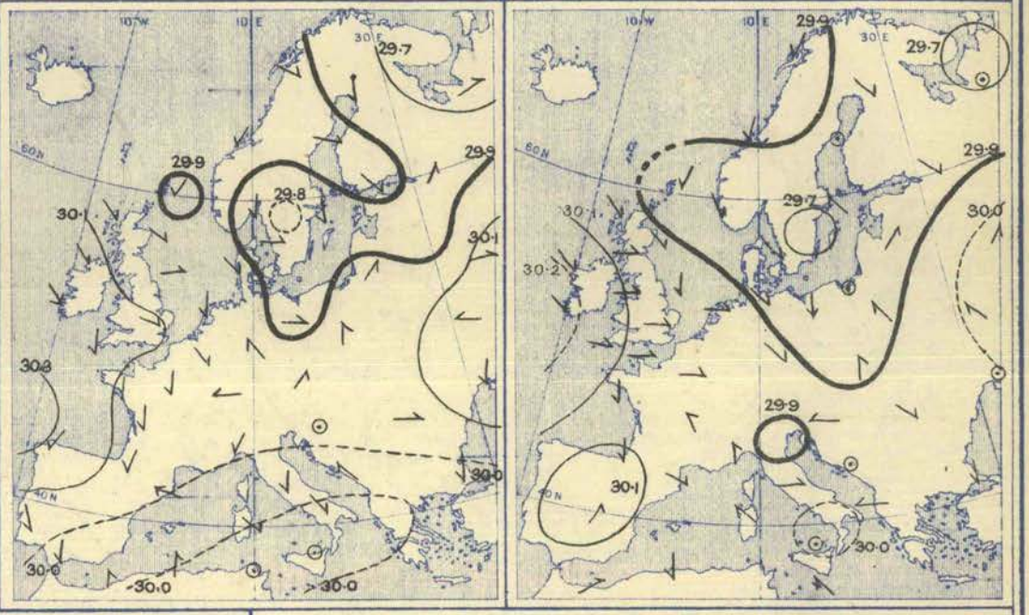
Temperature and Weather. — 8 a.m.



Weather cloudy or overcast in most parts of western and central Europe, with mist at several of our southern and south-western stations; rain in the north-west of our Islands, as well as in the west of Norway. Fine and bright in all the more southern and eastern countries, as well as over central Russia, but dull over northern Russia. Rain falling later in all but the south-western parts of the United Kingdom, amounts mostly small, but larger falls in south and east of France, and thunderstorms in many places.

Temperature highest, 97° at Algiers, 90° at Oran, 86° at La Calle, and 83° at Brindisi; above 75° over Italy, the Adriatic, and the Mediterranean generally, and a little above 70° in some parts of north Germany. Lowest, 46° at Bodö, 50° at Uleaborg, 51° at Christiansund, 53° at Kuopio, and 54° at Archangel, Hernösand, and Sumburgh Head. Rising during day to 70° or more in many parts of the United Kingdom, to 76° in London, and 77° at Prawle Point; exceeding 80° at some of the German stations, 85° in the south of France, 90° in the south of Italy, and touching 104° to 113° in several parts of Algeria.

Barometer and Wind. — 8 a.m. and 6 p.m.

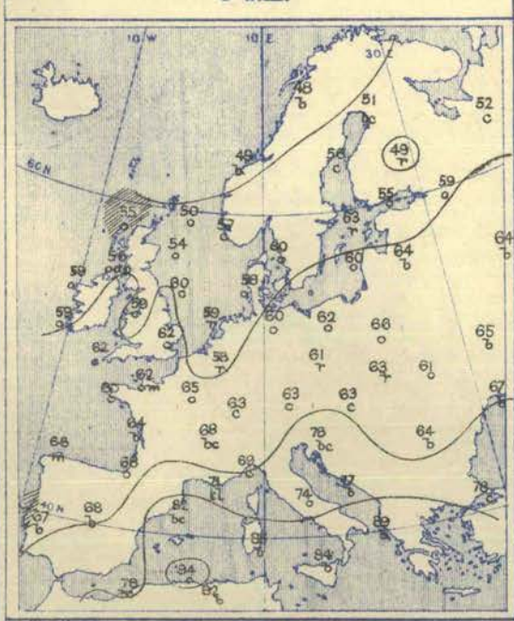


Wind light to moderate from the Westward or North-Westward over our Islands, from the Northward in France, and from the North-Eastward in Spain; light to fresh from the Northward over Scandinavia, but Southerly over Poland, north Germany, and the Baltic; Northerly or North-Easterly in the south of Russia, North-Westerly in Italy, Southerly or South-Westerly in Algeria. No important change occurring over western Europe during day, but South-Easterly breeze setting in over the south-east of Sweden and the Baltic Provinces.

Barometer highest, 30·1 ins. to 30·3 ins. in an anticyclone extending from the Atlantic over the western parts of our Islands, the Bay of Biscay, and the north-western parts of the Spanish Peninsula; 30·1 ins. and upwards in another system lying over central and southern Russia. Lowest, 29·7 ins. and less in a depression over the extreme north of Russia, 29·9 ins. and less in a small shallow disturbance near the Shetlands. Further shallow depressions forming during day over various parts of Great Britain, the North Sea, and south of Scandinavia, and distribution of pressure to eastward of our Islands becoming very irregular.

Monday, 1st August.

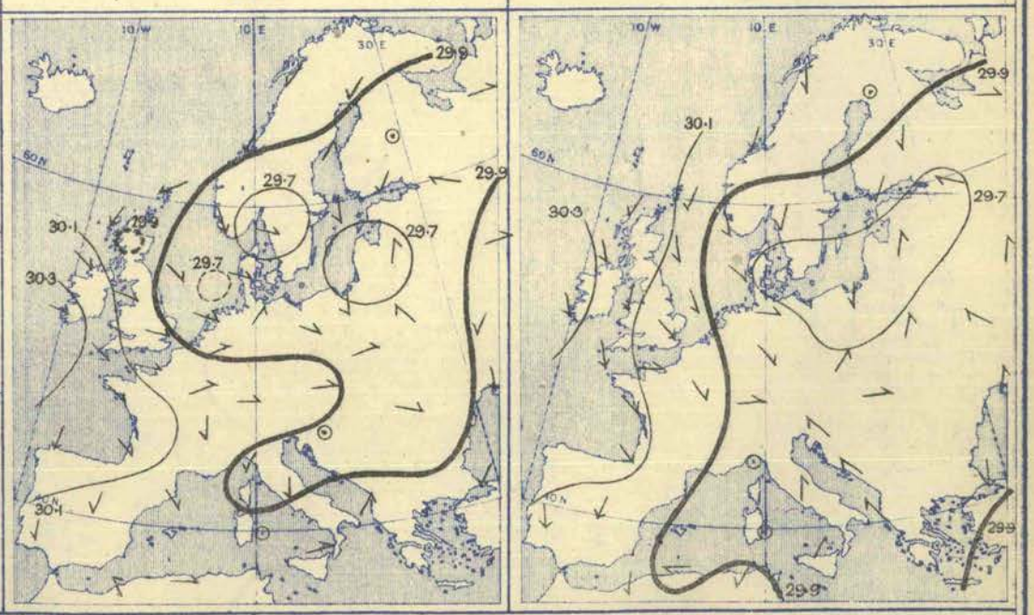
Temperature and Weather. — 8 a.m.



Weather in morning fine and bright over south-eastern Europe, the Mediterranean, and Spanish Peninsula, as well as over the northern half of Scandinavia; cloudy or overcast elsewhere, with rain at times in several parts of the British Islands, the Netherlands, and Germany; thunder and lightning in the south of France. Rain at times during the day, except in the south-western parts of the United Kingdom, but amounts small in our Islands; thunder and lightning in the south and east of France. Sky clearing subsequently over the United Kingdom.

Temperature falling again in the north. Morning readings, 94° at Algiers, 89° at Brindisi and Palma, 85° at Cagliari, and above 70° at the Mediterranean stations generally; exceeding 60° over eastern, central, and the greater part of western Europe, but as low as 48° at Bodö, 49° at Christiansund and Kuopio, 50° at Sumburgh Head, and 54° at Aberdeen. Not reaching 60° in the north-east of Scotland all day, but approaching 70° in many parts of England; exceeding 70° at several of our south-western stations, as well as in Germany and the southern parts of France, and touching 90° at Nice, 104° at Palermo, and 110° to 113° in some parts of Algeria.

Barometer and Wind. — 8 a.m. and 6 p.m.



Wind North-Easterly over the northern half of Scandinavia, North-Easterly to Easterly over Scotland, North-Westerly over Ireland, England, and Bay of Biscay; Westerly over Germany, South-Easterly over the Baltic Provinces; extremely variable elsewhere. Becoming more Northerly over Ireland and England later, and increasing in force over Norway and the Skager Rack; becoming strong from North-East at Wisby.

Barometer highest, 30·3 ins. to 30·0 ins. over Ireland, Wales, the west of England, and the western parts of France and Spain; 30·0 ins. and more over central Russia. Lowest, 29·7 ins. and less to 29·8 ins. in a complex depression covering the Baltic, the south of Scandinavia, and the North Sea; shallow local disturbances over Scotland, Austria, and the north-eastern part of the Mediterranean also. Rising later in all parts of north-western, but falling over central Europe.

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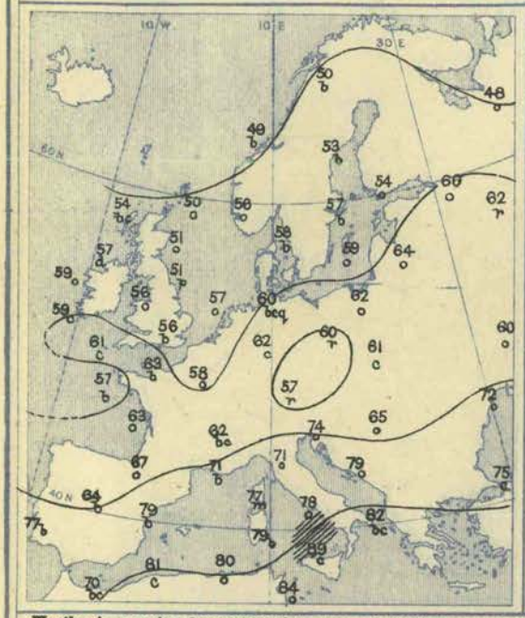
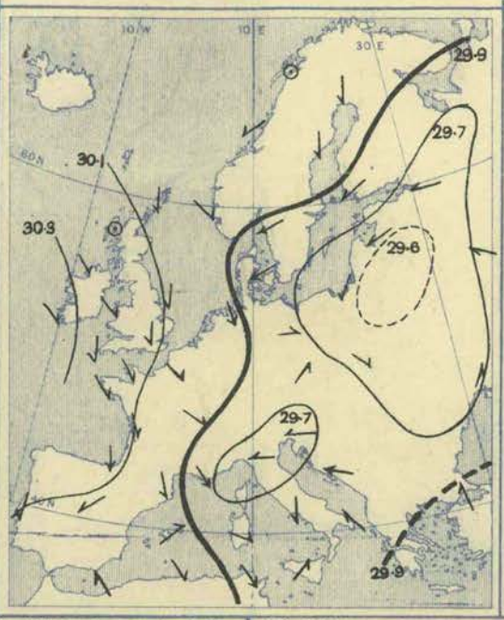
III.—SUMMARY OF WEATHER OVER EUROPE.

Tuesday, 2nd August.

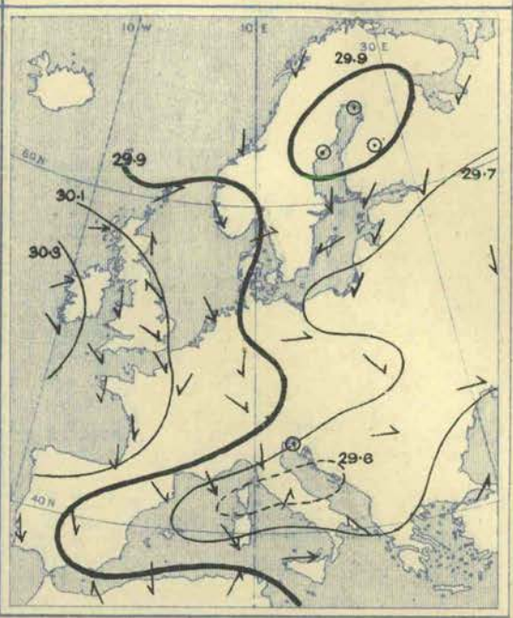
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fine and bright over northern Europe and some of the southern parts of the British Islands, the west of France, and in Spain; temporarily clear in some parts of Austria also; cloudy or overcast elsewhere, with rain in some parts of Ireland, England, France, Russia, and many parts of Germany. Slight rainfall during day in several parts both of our Islands and the Continent, heavy falls at St. Petersburg and Pesaro. Rain setting in later in the north of Scotland.

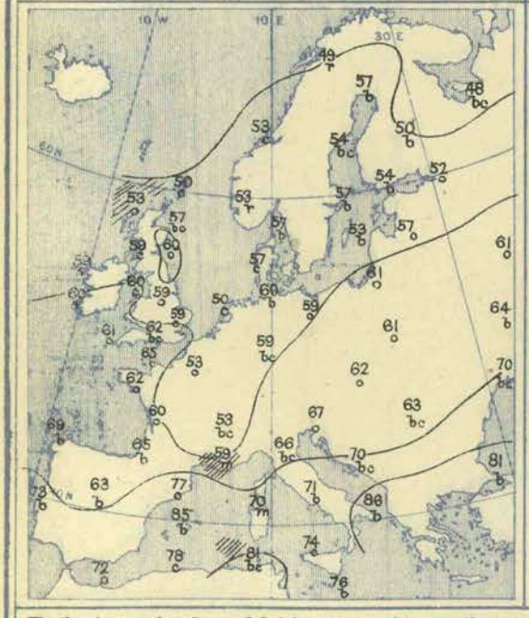
Temperature decreasing slowly over western Europe. Morning readings, exceeding 80° on the southern side of the Mediterranean, and exceeding 70° on the Spanish, Italian, and Dalmatian coasts; exceeding 60° over the inland parts of Europe generally,—lower over the British Islands and Scandinavia. Lowest, 48° at Archangel, 49° at Christiansund, 50° at Bodö and Sumburgh Head, 51° at Shields, Aberdeen, and Kuopio. Rising during the day to between 60° and 65° in most parts of our Islands, but to 70° at Parsonstown and Roche's Point, 71° at Prawle Point, to between 90° and 104° over southern Italy and Sicily, and to more than 110° over central Algeria.

Wind light to moderate from the Northward over Spain, the Bay of Biscay, the Channel, and England, and from North-West in Ireland; nearly calm in Scotland and Norway, North-Easterly to Northerly over the Baltic and Holstein. A North-Westerly gale reported at Toulon, and fresh North-Westerly to South-Westerly winds over the south-eastern parts of the Mediterranean. A Westerly breeze setting in over the northern parts of Scotland later.

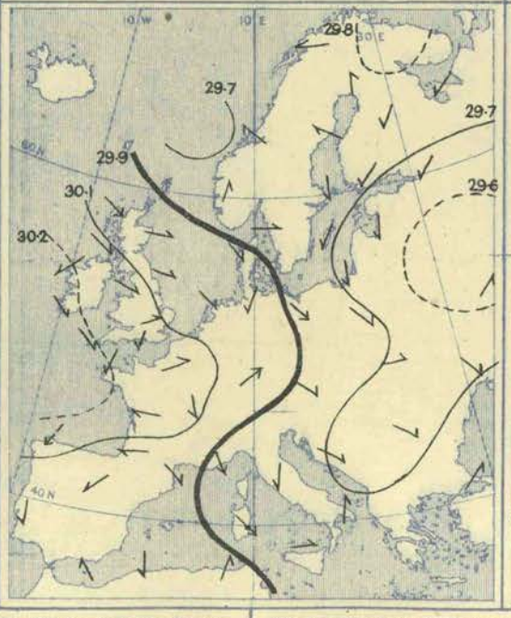
Barometer highest, 30·3 ins and more to 30·0 ins. over the whole of western Europe, and exceeding 29·9 ins. over the north-eastern part of Russia. Lowest, 29·7 ins. and less over the northern parts of Italy, the Adriatic, and Mediterranean; 29·6 ins. and less over the Baltic Provinces. Beginning to fall again on our northern coasts later.

Wednesday, 3rd August.

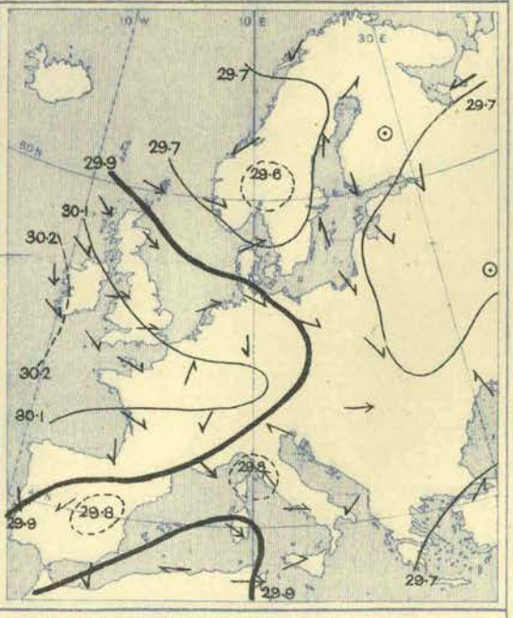
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fine and bright over southern, south-western, and south-eastern Europe, cloudy or overcast elsewhere, and unsettled; rain falling at Bodö and at Buda Pesth; weather squally at Aberdeen. Some rain later at many of our northern and western stations, and on the eastern shores of the North Sea,—amounts small in these localities, but heavy fall taking place in the south of Russia.

Temperature not changing much. Morning readings, 81° at La Calle, 85° at Palma, 86° at Brindisi; exceeding 70° at most of the Mediterranean and Adriatic stations, and exceeding 60° over Russia, Poland, Austria, and at some of our own stations. Lowest, (1) 48° at Archangel, 49° at Bodö, 50° at Kuopio and Sumburgh Head, 55° at Nairn and Malin Head; (2) 53° at Paris and Lyons, 54° at Brussels, 53° at Limoges, and 59° even at Toulon. Rising later to 70° at Roche's Point, Cambridge, and London, and to rather higher values in the west of France; touching 90° in several parts of Spain and Italy, but not exceeding 69° at Paris.

Wind varying between West and North over the greater part of the British Islands and France; very variable over Europe generally, owing to cyclonic circulations, having their centres (1) off the west of Norway, (2) over Russia, (3) over the south-east of Europe and the Mediterranean. Freshening considerably later from the North-Westward in the north of Scotland; no important change occurring elsewhere.

Barometer highest, 30·2 ins. and more in the eastern part of an anticyclone spreading from the Atlantic over western Europe. Lowest, 29·6 ins. over central and western Russia, 29·7 ins. and less off the west of Norway, 29·8 ins. and less over the Adriatic, Italy, and adjacent parts of the Mediterranean. Falling over the Continent later, and shallow depressions appearing over Spain and northern Italy; no decided change occurring in our Islands.

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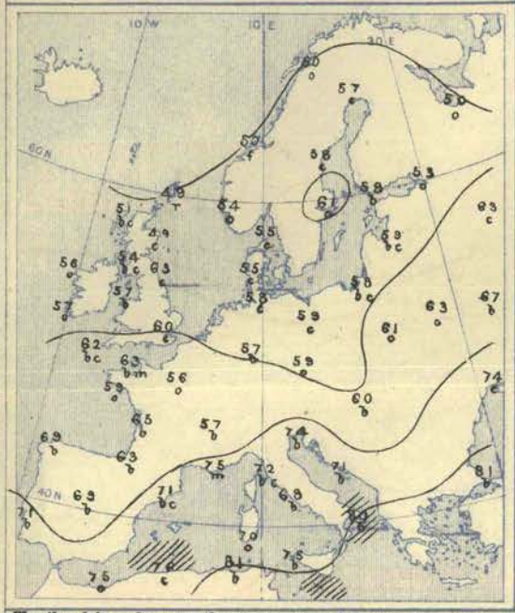
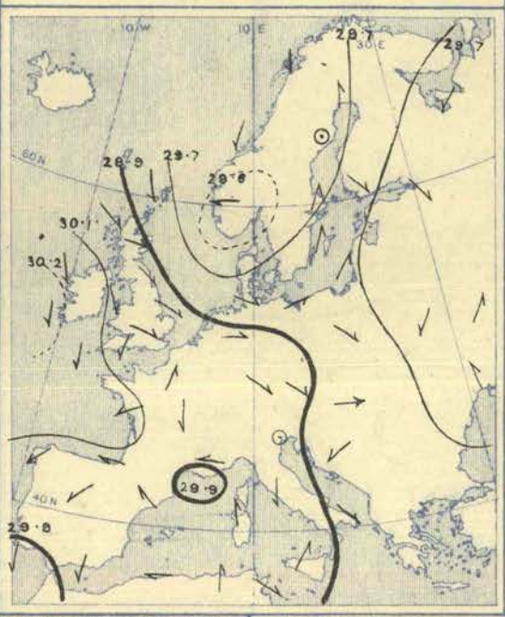
III.—SUMMARY OF WEATHER OVER EUROPE.

Thursday, 4th August.

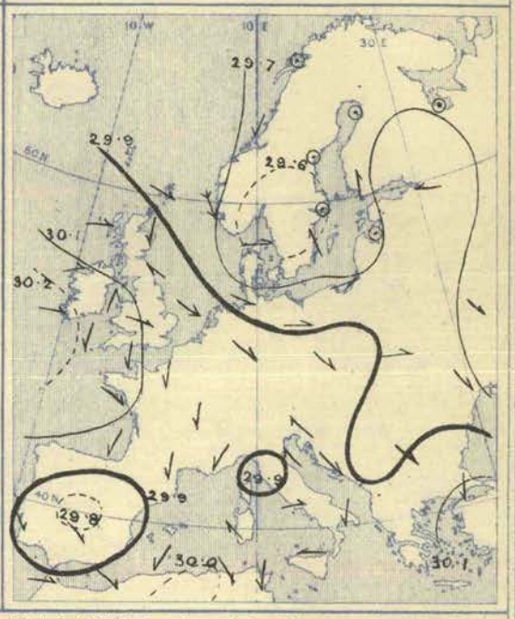
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather fair or fine over the greater part of Europe, but dull in Ireland, Belgium, and the western and central parts of France, as well as at many of the Russian stations; showers reported at Malin Head. Very little change occurring over the western countries later, but rain falling in Scandinavia, Denmark, north Germany, and central Russia, and slight showers in the extreme north and north-west of our Islands.

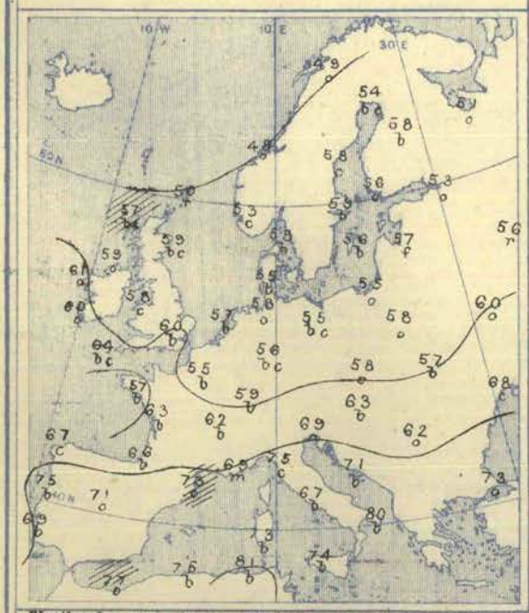
Temperature highest, 81° at La Calle and Constantinople, 80° at Brindisi, 77° at Oran, and 76° at Tunis; above 70° over the Mediterranean and Adriatic generally, and above 65° in all parts of southern and south-eastern Europe. Lowest, 49° at Sumburgh Head and Aberdeen, 50° at Archangel, Bodö, and Christiansund, and 51° at Stornoway, Wick, and Nairn; below 55° over the northern parts of our Islands generally. Rising during day to 65° and upwards in many parts of Great Britain, but not reaching 70°; exceeding 80° over southern Europe generally, and reaching 88° at Oporto, Lisbon, Cagliari, and Palermo, and 96° at Madrid.

Wind North-Westerly over Great Britain, light in force in most places, but strong in the north of Scotland; moderate to strong from the Westward over Denmark and Germany, light from the South-Westward over the Baltic, and from the Southward in Sweden; light, Northerly, in Ireland and the extreme south of England; North-Easterly or Easterly in Spain and the west and south of France, North-Westerly in Italy and Austria, Southerly in the south of Russia. Backing to the Westward in Ireland and the west of Scotland later.

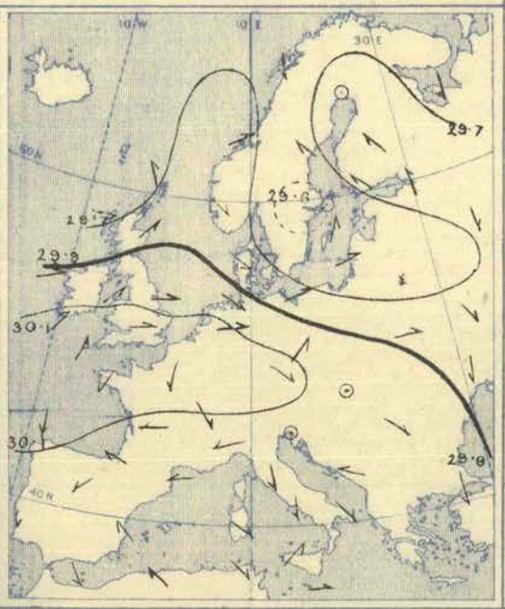
Barometer highest, 30·2 ins. and upwards to 30·1 ins. in an anticyclone extending from the Atlantic over Ireland and the Bay of Biscay. Lowest, 29·6 ins. and less in a well defined, though not very deep depression lying over the south of Norway; 29·7 ins. and less in a large shallow area covering nearly the whole of European Russia. Norwegian depression subsequently moving slowly eastward, but new disturbance beginning to approach our north-west coasts at night; low pressure system again forming over central Spain.

Friday, 5th August.

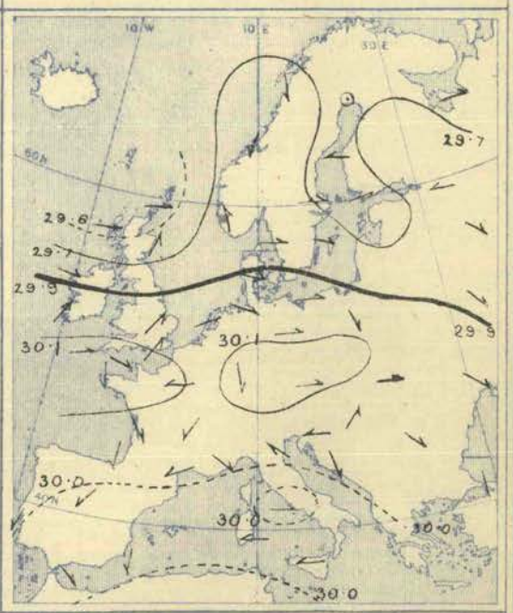
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather fine over a considerable portion of our Islands and the Continent, but dull in Ireland and the north of England, with passing showers at Mullaghmore; dull also over Germany and central Spain, rainy at Moscow and Kharkov. Rain falling later in nearly all the more western and northern parts of the United Kingdom, Scandinavia, and the Baltic, and also in some parts of Russia and Poland, but amounts mostly small; very heavy falls in northern Italy; thunderstorms in south of France.

Temperature highest, 81° at La Calle, 80° at Brindisi, 78° at Oran, and 77° at Nemours and Aumale; above 70° at most of the Spanish, the Mediterranean, and the Adriatic stations, and above 65° in the south of Russia. Lowest, (1) 48° at Christiansund, 49° at Bodö, 50° at Ulealborg and Sumburgh Head, and 51° at Archangel; (2) 52° at Oxford, and 55° at Shields. Rising during day to 65° and upwards in many parts of Great Britain and the south of Ireland, and reaching 74° in London; exceeding 80° in Spain and some parts of France, and reaching 86° at Perpignan and in Italy, and 100° and more over central Algeria.

Wind light to fresh from the South-Westward in the west and north of our Islands, but variable on our south coasts; moderate to strong from the North-Westward on the eastern shores of the North Sea, light from the Westward over the Netherlands and Germany, light from South-East over Finland and the north of Sweden, Northerly or North-Westerly over the central and southern parts of Russia, North-Easterly or Easterly over the greater part of France and Spain, variable in Italy and Algeria. South-Westerly breezes extending to our south coasts later, but wind veering to the Westward in Ireland and the west of Scotland.

Barometer highest, 30·1 ins. and upwards in an anticyclone extending from the Atlantic over the Bay of Biscay, the south of our Islands, and the northern parts of France, to western and southern Germany. Lowest, 29·6 ins. and less in a depression lying off the north of Scotland, and also in a shallow system lying near Stockholm. Depression in north subsequently moving slowly eastwards, and also spreading out in a southerly direction; barometer falling in all parts of western Europe.

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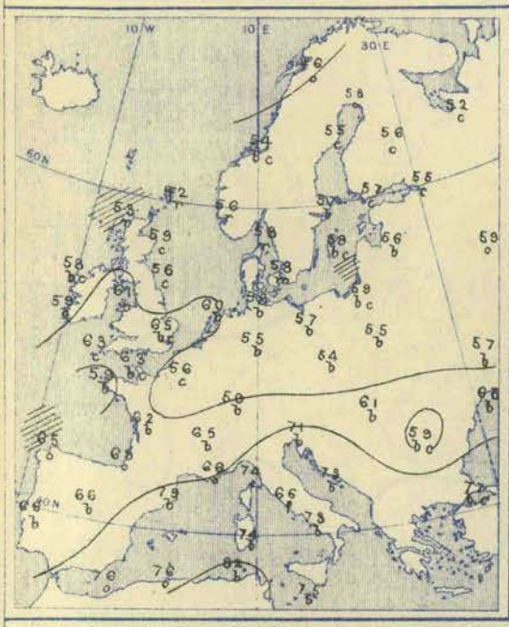
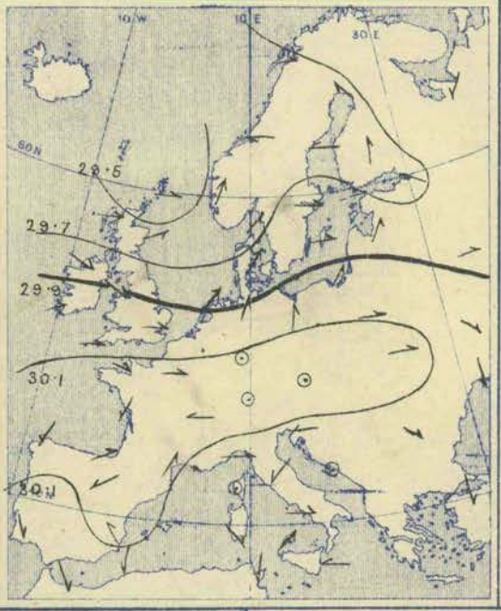
III.—SUMMARY OF WEATHER OVER EUROPE.

Saturday, 6th August.

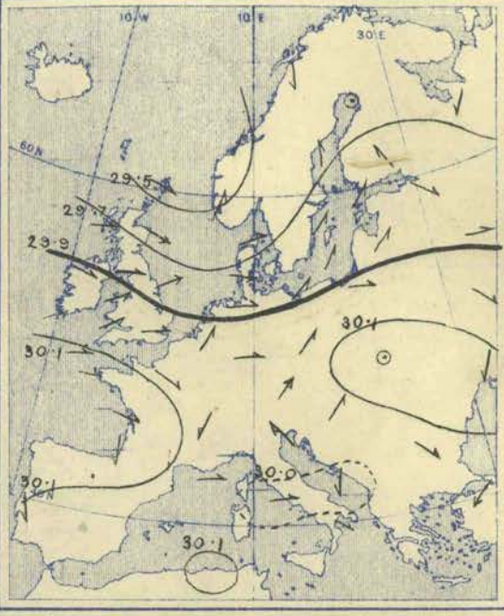
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fine and bright over the greater part of the Continent, and fair over the major part of Great Britain; dull over Norway, very rainy over the south of Ireland and at Pembroke. Rain in the west, south, and north of our Islands and the north of England later, and smaller quantities in Germany, Denmark, Norway, the north of Italy, and south of Russia.

Temperature in morning exceeding 80° in Algeria only; exceeding 70° at most of the Mediterranean stations, on the shores of the Black Sea, and at Paris, and exceeding 60° over Germany, France, and the greater part of England; lower elsewhere, and as low as 47° at Bodö, 51° at Sumburgh Head, 54° at Christiansund, Skudesnaes, Wick, and Malin Head. Failing to reach 60° in Norway, the north of Scotland, and north of Ireland during day, but exceeding 70° at some of our southern stations, 80° over the southern parts of France and in Italy, and 100° over central Algeria.

Wind very variable indeed over south-eastern and southern Europe, and of little force; Westerly over the British Islands, the North Sea, and north of France; South-Westerly over the Baltic, fresh at the Channel stations, moderate or light elsewhere. Blowing strongly from West in English Channel later, and freshening from South-West over the North Sea.

Barometer highest, 30·1 ins. and more to 30·6 ins. over the Bay of Biscay and all the southern half of Europe. Lowest, 29·5 ins. and less in a depression off the west of Norway; gradients moderate. Shallow secondary over south-east of Ireland. Latter system moving eastward later; that in north growing deeper.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During all the earlier part of this week barometric pressure was high over the Atlantic and the most western parts of Europe; low and very irregularly distributed over the eastern and central countries and the Mediterranean. In the former regions the wind was more or less Northerly, the temperature low, and the sky cloudy, but the rainfall was scanty; in the latter the wind was very variable, showers occurred frequently, and in the south and east of France, Switzerland, and south Germany, there were heavy thunderstorms and rains.

After Thursday a change took place; pressure became highest over the southern countries generally, lowest in the north, and some well marked disturbances of considerable depth came over the north-western and northern countries from the westward. Temperature rose, but was unsteady; the wind shifted to the Westward and South-Westward over the northern regions, with rain, while the weather in the south and south-east cleared up. The showers subsequently spread southwards to the southern parts of England and the Netherlands.

At the close of the week these unsettled conditions continued.

BRIGHT SUNSHINE Values for the Week in addition to those found on page 182.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	38·5	?	35	?	EASTBOURNE	45·1	?	43	?
OSWALDKIRK (Yorkshire)	22·3	?	21	?	TENBY *	30·1 *	?	28 *	?
WORKSOP	27·1	− 8·5	25	− 8	NEWQUAY	46·1	?	44	?
THURCASTON (Leicestershire)	35·1	− 2·0	33	− 2	TORQUAY *	51·1 *	?	49 *	?
MARGATE	38·3	?	36	?	ARLEY COTTAGE (County Cavan)	29·9	?	28	?
WESTBOURNE (Sussex)	43·6 *	?	42 *	?	GUERNSEY				
BRIGHTON	46·8	?	45	?					

* The values at Westbourne, Tenby, Torquay and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.
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VOL. IX. No. 32.] *Third Series.* WEEK ENDING SATURDAY, 13TH AUGUST, 1892. [*Price 6d.* [*Annual subscription, post paid, £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years' observations (1871-90). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the ten years 1881-90. RAINFALL.—*The Mean amounts* are those for the corresponding periods in the twenty-five years 1866-90, but the *Mean numbers of Rainy Days* are those for the ten years 1881-90, only. BRIGHT SUNSHINE.—*The Mean values* employed are those for the corresponding periods in the ten years 1881-90.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

DISTRICTS. (See p. 188.)	Observed during the Week. Highest.	Observed during the Week. Lowest.	Averages of Daily Maxima.	Averages of Daily Minima.	Averages of Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	For the Week. Difference from Mean.	For the Week. Below 42°	For the Week. Difference from Mean.	From January 3rd, 1892. Above 42°	From January 3rd, 1892. Difference from Mean.	From January 3rd, 1892. Below 42°	From January 3rd, 1892. Difference from Mean.
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts. 0. SCOTLAND, NORTH	63	36	59·7	48·0	53·5	1 below.	81	− 1	0	0	1118	− 18	754	+212
1. SCOTLAND, EAST	70	33	62·4	47·4	54·4	2 below.	87	−17	0	0	1335	−160	813	+241
2. ENGLAND, N.E.	74	35	63·5	49·3	56·0	3 below.	98	−14	0	0	1449	−129	681	+186
3. ENGLAND, EAST	78	38	68·1	49·6	58·3	2 below.	114	−10	0	0	1723	−118	771	+210
4. MIDLAND COUNTIES	78	35	63·4	49·0	57·2	2 below.	106	−13	0	0	1749	− 88	802	+250
5. ENGLAND, SOUTH	77	39	67·2	52·6	59·5	2 below.	123	− 8	0	0	1838	− 97	554	+138
Principal Grazing, &c., Districts. 6. SCOTLAND, WEST	66	34	61·0	48·3	54·3	3 below.	86	−16	0	0	1441	− 90	610	+193
7. ENGLAND, N.W.	71	34	62·8	50·0	56·0	3 below.	93	−14	0	0	1565	− 82	579	+165
8. ENGLAND, S.W.	73	37	64·9	51·8	58·0	1 below.	112	− 7	0	0	1807	− 32	433	+117
9. IRELAND, NORTH	69	36	62·5	50·1	55·9	2 below.	97	− 8	0	0	1576	− 73	484	+122
10. IRELAND, SOUTH	70	41	65·1	52·5	58·5	1 below.	116	+ 3	0	0	1849	− 25	410	+132
— CHANNEL ISLANDS	75	49	68·5	56·6	62·2	0 (average)	141	+ 9	0	0	2058	+ 37	164	+ 42

Rainfall.

DISTRICTS. (See p. 188.)	For the Week. Number of Rainy Days.	For the Week. Total Fall.	For the Week. More or less than the Mean for the Week.	From January 3rd, 1892. Number of Rainy Days.	From January 3rd, 1892. Difference from Mean.	From January 3rd, 1892. Total Fall.	From January 3rd, 1892. Difference from Mean.
		10ths of In.	10ths of In.			Ins.	Ins.
Principal Wheat-producing Districts. 0. SCOTLAND, NORTH	5	11	2 more.	148	+ 2	25·8	− 1·3
1. SCOTLAND, EAST	5	9	2 more.	118	0	14·8	− 3·2
2. ENGLAND, N.E.	5	13	7 more.	117	+ 8	14·5	− 0·4
3. ENGLAND, EAST	3	2	4 less.	108	+ 2	12·9	− 1·9
4. MIDLAND COUNTIES	3	5	1 less.	100	− 6	13·0	− 3·4
5. ENGLAND, SOUTH	3	4	1 less.	86	−16	10·2	− 5·3
Principal Grazing, &c., Districts. 6. SCOTLAND, WEST	5	20	10 more.	113	−13	23·3	− 4·8
7. ENGLAND, N.W.	5	19	12 more.	116	+ 2	18·7	− 0·2
8. ENGLAND, S.W.	3	7	1 less.	102	−15	14·2	− 8·1
9. IRELAND, NORTH	4	14	6 more.	123	−12	19·6	− 1·2
10. IRELAND, SOUTH	4	17	9 more.	110	−14	20·3	− 2·1
— CHANNEL ISLANDS	3	3	2 less.	101	−23	13·5	− 4·2

Bright Sunshine.

DISTRICTS. (See p. 188.)	For the Week. Hours recorded.	For the Week. Difference from Mean.	For the Week. Percentage of possible Duration.	For the Week. Difference from Mean.	From January 3rd, 1892. Hours recorded.	From January 3rd, 1892. Difference from Mean.	From January 3rd, 1892. Percentage of possible Duration.	From January 3rd, 1892. Difference from Mean.
Principal Wheat-producing Districts. 0. SCOTLAND, NORTH	26	+ 1	24	0	879	+ 44	29	+ 1
1. SCOTLAND, EAST	27	− 4	25	− 6	986	+ 14	33	+ 1
2. ENGLAND, N.E.	25	− 7	23	− 9	939	+ 50	31	+ 1
3. ENGLAND, EAST	38	− 2	37	− 5	1104	+ 38	37	+ 1
4. MIDLAND COUNTIES	31	− 7	29	− 8	1040	+ 93	35	+ 3
5. ENGLAND, SOUTH	41	− 1	40	− 3	1225	+202	42	+ 7
Principal Grazing, &c., Districts. 6. SCOTLAND, WEST	28	− 7	27	− 6	1050	+ 88	35	+ 3
7. ENGLAND, N.W.	27	− 8	26	− 7	1057	+106	35	+ 3
8. ENGLAND, S.W.	36	−14	35	−12	1242	+126	42	+ 4
9. IRELAND, NORTH	27	− 4	26	− 3	948	+ 65	32	+ 2
10. IRELAND, SOUTH	24	−12	23	−11	1036	+ 22	35	+ 1
— CHANNEL ISLANDS	60	+ 5	59	+ 4	1457*	+150	50	+ 5

Bright Sunshine.—For several of the stations there are no "mean" values available, and the "difference from the mean" in some of the districts is consequently that of only a few of the stations.

General Remarks.

Weather during the earlier part of the period was generally cloudy, cold, and dull, with heavy falls of rain—especially in the west and north; as the week progressed, however, it became fine and dry over England, although it still continued unsettled, with frequent rain in most parts of Ireland and Scotland. By the end of the period disturbed conditions again extended to the English districts, and rain fell very generally, accompanied in many places by thunder and lightning.

Temperature just equalled the mean in the Channel Islands, but in all other districts it was low. The highest of the maxima were recorded, as a rule, on the 12th, but occurred at some few stations on the 8th. They ranged from 78° in England E. and the Midland Counties, to 69° in Ireland N., 68° in Scotland N., and 66° in Scotland W. The absolute minima, which were registered on the 11th, were exceedingly low for the time of year. In Scotland E. the thermometer fell to 33°, in Scotland W. and England N.W. to 34°, and in England N.E. and the Midland Counties to 35°; in most other districts it fell to between 37° and 39°, but in the Channel Islands it did not descend below 49°. At many of the more inland stations frost was experienced on the grass.

Rainfall exceeded the mean in Ireland, Scotland, and the northern parts of England, but again showed a deficit in all the southern, central, and eastern parts of England, as well as in the Channel Islands. Over the south of Ireland, the west of Scotland, and the north of England, the excess was very considerable.

Bright Sunshine was less than the mean in all districts excepting the Channel Islands. The percentage of the possible duration ranged from 23 in England N.E. and Ireland S., to 40 in England S., and to 59 in the Channel Islands.

Barometer and Wind.—During the earlier days of the week a rather complex depression passed eastwards directly over the Kingdom, causing Easterly winds in the north, and South-Westerly to Westerly in the south. As this disturbance passed away an anticyclone appeared over our Islands, with Westerly winds in the north, and North-Easterly breezes in the south. During the remainder of the period this system moved gradually south-eastwards; depressions again appeared in the west and north towards the latter part of the week, and the South-Westerly and Westerly winds spread to all our coasts, and increased considerably in force—especially in the west and south.

* This value has been altered owing to the receipt of further information.

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II.—DATA from which the SUMMARY on page 187 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head ⚓	56	44	55·1	47·7	51·2	− 1·8	64	0	5	1·03	+0·35	*	*	*	*
	Stornoway ⚓	60	41	58·6	47·0	52·5	− 2·0	74	0	5	1·00	+0·20	28·5	+ 1·0	26	0
	Wick ⚓	62	44	59·4	49·0	53·9	− 0·9	83	0	6	0·50	−0·09	*	*	*	*
	Lairg ⚓	66	36	61·2	46·9	53·6	− 1·3	81	0	5	0·35	−0·32	*	*	*	*
	Glencarron ⚓	63	38	60·0	47·1	53·2	− 1·2	78	0	5	2·07	+0·58	*	*	*	*
	Fort Augustus ⚓	68	38	62·9	49·3	55·7	− 0·6	96	0	5	0·85	+0·16	22·4	?	21	?
	Fort William ⚓	65	40	60·9	49·0	54·6	− 1·9	88	0	5	2·07	+0·77	27·8	?	26	?
1. SCOTLAND, E.	Nairn ⚓	70	36	63·1	48·7	55·5	− 1·4	95	0	5	0·18	−0·45	*	*	*	*
	Aberdeen ⚓	67	37	62·6	48·3	55·0	− 1·7	91	0	4	0·40	−0·30	30·4	− 5·3	28	− 6
	Braemar ⚓	64	33	58·9	45·6	51·9	− 2·2	69	0	5	0·46	−0·35	24·8†	?†	23†	?†
	Ochtertyre ⚓	69	37	64·4	46·4	54·9	− 1·8	90	0	6	1·29	+0·49	*	*	*	*
	Leith ⚓	70	39	64·3	49·1	56·2	− 2·3	99	0	6	1·39	+0·82	*	*	*	*
	Marchmont ⚓	67	37	61·0	46·0	53·1	− 3·3	78	0	6	1·51	+0·71	28·0	?	26	?
2. ENGLAND, N.E.	Alnwick Castle ⚓	66	37	61·4	49·3	55·0	− 2·1	91	0	7	2·26	+1·56	*	*	*	*
	Durham ⚓	71	35	64·1	46·4	54·7	− 3·8	89	0	6	1·64	+1·02	25·5	− 9·9	24	− 9
	Shields ⚓	71	39	63·3	47·1	54·7	− 3·2	89	0	5	1·41	+0·71	*	*	*	*
	Scarborough ⚓	72	46	63·7	50·6	56·8	− 1·9	104	0	3	0·92	+0·27	*	*	*	*
	York ⚓	74	43	64·6	49·1	56·4	− 2·9	101	0	4	1·35	+0.77	25·5	− 8·5	24	− 9
	Spurn Head ⚓	73	51	63·9	53·0	58·1	− 1·7	113	0	3	0·34	−0·08	*	*	*	*
3. ENGLAND, E.	Hillington ⚓	76	40	68·8	48·8	58·2	− 2·3	113	0	3	0·21	−0·44	38·4	− 2·6	37	− 2
	Yarmouth ⚓	72	48	64·6	52·3	58·1	− 2·6	113	0	4	0·16	−0·42	*	*	*	*
	Geldeston ⚓	78	38	69·6	48·3	58·3	− 2·1	114	0	3	0·17	−0·26	40·8	− 3·5	40	− 3
	Cambridge ⚓	78	40	69·7	49·3	58·9	− 2·5	118	0	3	0·20	−0·30	33·5	− 7·5	33	− 7
	Rothamsted ⚓	74	38	67·6	49·5	58·0	− 2·2	112	0	3	0·10	−0·47	38·1	?	37	?
4. MIDLAND COUNTIES	Bawtry (Hesley Hall) ⚓	75	42	65·7	49·0	56·9	− 2·7	104	0	3	0·67	+0·10	*	*	*	*
	Loughborough ⚓	77	41	68·3	51·0	59·1	− 1·8	120	0	3	0·38	−0·19	*	*	*	*
	Stamford (Ketton Hall) ⚓	78	35	68·6	48·4	57·9	− 3·0	111	0	3	0·23	−0·25	*	*	*	*
	Cheadle ⚓	71	40	63·5	48·3	55·4	− 2·2	94	0	4	0·99	+0·21	*	*	*	*
	Churchstoke ⚓	72	35	64·9	47·9	55·9	− 2·0	97	0	3	0·49	−0·15	27·9	−10·4	27	−10
	Hereford ⚓	74	39	67·1	48·9	57·5	− 2·7	109	0	3	0·17	−0·38	*	*	*	*
	Cirencester ⚓	71	36	65·0	47·7	55·8	− 3·2	97	0	3	0·30	−0·42	34·6	− 6·2	34	− 6
	Oxford ⚓	73	39	67·9	51·0	58·9	− 1·9	118	0	3	0·72	+0·18	36·1	− 5·9	35	− 6
5. ENGLAND, S.	London ⚓	77	42	70·3	51·6	60·4	− 1·9	129	0	3	0·63	+0·13	39·4†	+ 1·2†	38†	+ 1†
	North Foreland ⚓	73	51	66·1	54·3	59·9	− 1·1	125	0	4	0·46	?	*	*	*	*
	Strathfield Turgiss ⚓	75	41	69·8	49·1	58·8	− 2·4	118	0	3	0·38	−0·11	*	*	*	*
	Dungeness ⚓	69	50	66·1	55·9	60·7	− 1·3	131	0	2	0·23	−0·24	*	*	*	*
	Hastings (St. Leonards) ⚓	69	50	65·2	54·4	59·5	− 2·4	123	0	3	0·53	−0·02	44·7	− 2·3	43	− 3
	Southampton ⚓	75	46	68·4	52·1	59·8	− 2·2	125	0	4	0·40	−0·22	40·6	− 5·9	39	− 7
	Hurst Castle ⚓	70	48	66·3	54·6	60·1	− 1·8	127	0	3	0·18	−0·32	*	*	*	*
	Stowell ⚓	71	39	65·7	48·5	56·6	− 3·0	102	0	3	0·43	?	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ⚓	64	40	61·4	48·5	54·6	− 2·2	88	0	5	1·57	+0·37	*	*	*	*
	Glasgow ⚓	65	42	62·1	49·1	55·2	− 1·6	92	0	6	1·41	+0·55	28·1	− 1·2	26	− 1
	Ardrossan ⚓	61	43	59·4	49·4	54·1	− 4·0	85	0	5	1·60	+0·76	*	*	*	*
	Glenlee ⚓	66	34	61·6	45·6	53·1	− 3·2	78	0	5	2·47	+1·42	*	*	*	*
	Douglas (Isle of Man) ⚓	64	41	60·6	49·1	54·5	− 2·6	88	0	6	2·68	+1·87	28·7	−10·5	27	−11
7. ENGLAND, N.W.	Newton Reigny ⚓	67	34	62·3	45·7	53·5	− 2·5	81	0	6	1·80	+1·07	25·1	− 7·6	24	− 8
	Stonyhurst ⚓	67	39	61·9	47·3	54·2	− 4·3	85	0	4	2·28	+1·20	22·6	−11·3	22	−11
	Blackpool ⚓	68	41	62·7	50·2	56·1	− 3·5	99	0	5	2·30	+1·57	32·5	− 4·4	31	− 4
	Manchester ⚓	70	41	63·4	49·1	55·8	− 2·7	97	0	5	1·64	+0·78	*	*	*	*
	Liverpool Obsy. (Bidston) ⚓	71	45	64·6	52·3	58·1	− 1·7	113	0	5	1·43	+0·75	*	*	*	*
	Llandudno ⚓	68	43	63·2	52·2	57·4	− 2·7	108	0	5	1·13	+0·53	28·8	− 6·7	28	− 7
	Holyhead ⚓	64	46	61·4	53·0	57·0	− 2·4	105	0	5	2·75	+2·12	*	*	*	*
8. ENGLAND, S.W.	Llandovery ⚓	73	37	66·6	47·6	56·5	− 2·7	102	0	5	0·97	−0·06	*	*	*	*
	Pembroke ⚓	64	53	61·7	55·1	58·2	− 1·0	113	0	3	0·89	+0·26	24·7	−21·1	24	−20
	Arlington (N. Devon) ⚓	70	42	64·4	49·3	56·4	− 1·9	101	0	4	1·27	+0·12	*	*	*	*
	Cullompton ⚓	72	37	67·2	49·7	57·9	− 1·4	111	0	3	0·41	−0·23	29·3	−11·9	28	−13
	Falmouth ⚓	68	49	66·3	54·5	60·1	− 0·1	127	0	2	0.45	−0·37	40·8	− 5·7	40	− 7
	Plymouth ⚓															
	Prawle Point ⚓	66	48	63·3	54·7	58·7	− 1·0	117	0	2	0.30	−0·22	*	*	*	*
9. IRELAND, N.	Malin Head ⚓	65	46	60·4	51·6	55·7	− 2·0	96	0	4	0·72	?	*	*	*	*
	Londonderry ⚓	—	42	—	49·3	—	—	—	0	4	1·06	+0·18	*	*	*	*
	Edenfel (Omagh) ⚓	67	40	62.7	49·4	55·7	− 1·3	96	0	5	1·20	+0·39	*	*	*	*
	Mullaghmore ⚓	66	49	62·6	52·1	57·0	− 1·4	105	0	4	1·08	+0·22	*	*	*	*
	Belmullet ⚓	63	48	62·3	50·3	55·9	− 3·0	97	0	4	1·00	?	*	*	*	*
	Markree Castle ⚓	67	36	63·1	46·6	54·4	− 2·3	87	0	4	1·64	+0·86	26·8	− 2·4	26	− 2
	Brookeborough ⚓	68	40	63·2	49·5	55·9	− 1·0	97	0	4	1·76	+0·92	*	*	*	*
	Armagh ⚓	69	39	62·9	49·0	55·5	− 2·0	95	0	4	1·60	+0·90	23·4	− 3·4	22	− 3
	Donaghadee ⚓	68	50	62·6	52·4	57·2	+ 0·2	106	0	6	2·08	+1·36	*	*	*	*
	Edgeworthstown ⚓												*	*	*	*
10. IRELAND, S.	Dublin ⚓	70	43	65·9	52·5	58·8	− 0·7	118	0	5	0·86	+0·24	30·3	− 6·0	29	− 7
	Parsonstown ⚓	70	42	65·3	49·3	56·8	− 1·7	104	0	4	2·18	+1·43	22·2	−10·8	21	−10
	Kilkenny ⚓	69	41	65·3	50·3	57·4	− 1·1	108	0	5	1·79	+1·09	*	*	*	*
	Waterford ⚓	70	41	65·5	51·7	58·2	− 1·3	113	0	4	1·52	+0·75	*	*	*	*
	Roche's Point ⚓	65	48	64·4	54·7	59·3	− 0·6	121	0	4	1·72	+0·92	*	*	*	*
	Valencia ⚓	66	48	64·0	54·7	59·1	0·0	120	0	5	1·86	+0·84	19·2	−16·9	19	−17
	Killarney ⚓	69	44	65·3	53·9	59·3	+ 0·4	121	0	4	2·12	?	*	*	*	*
	Foynes ⚓	69	46	65·4	53·1	58·9	+ 0·7	118	0	4	1·24	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's) ⚓	69	54	66·1	57·4	61·5	+ 0·8	137	0	4	0.32	−0·23	*	*	*	*
	Jersey ⚓	75	49	70·9	55·7	62·8	0·0	146	0	1	0·31	−0·17	59·5	+ 4·5	58	+ 4

Stations marked ⚓ are in connection with the Royal Meteorological Society, and those marked ⚓ with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

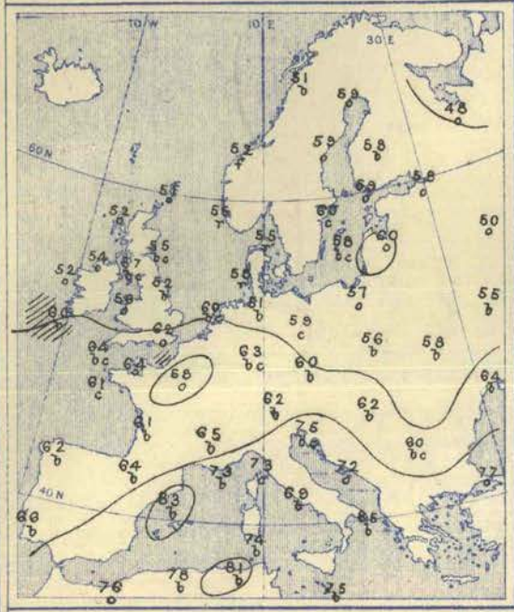
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory and the Meteorological Office, Victoria Street. For additional Reports of Sunshine see last page. NOTE.—It will be observed that Edenfel (Omagh) has been added to the list of stations in "Ireland, N."

III.—SUMMARY OF WEATHER OVER EUROPE.

Sunday, 7th August.

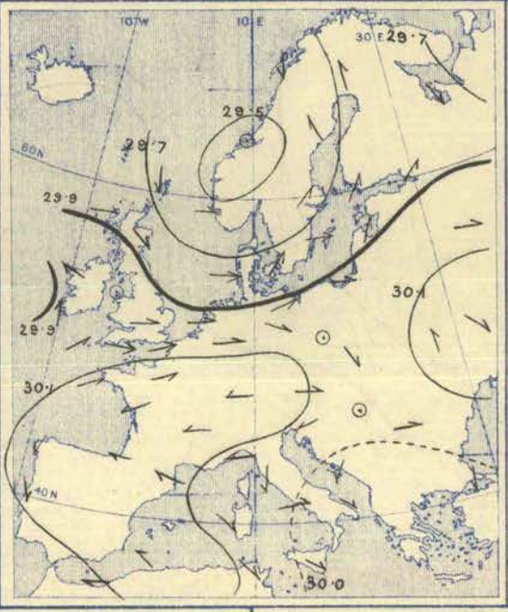
Temperature and Weather.

8 a.m.

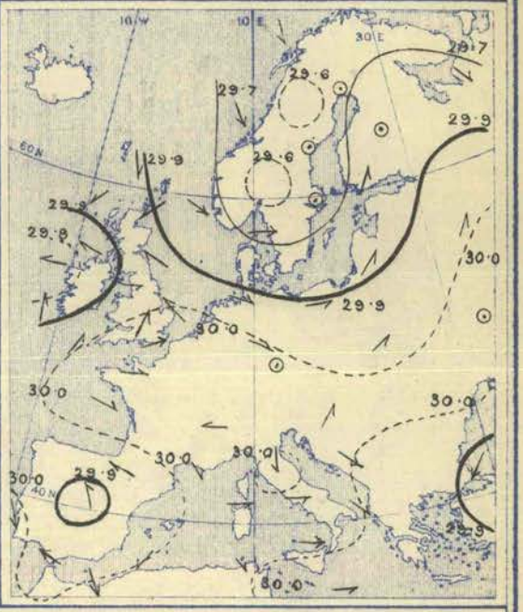


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over all the south-eastern and southern countries, and temporarily fine over Lapland and Finland; cloudy and unsettled over the British Islands as a whole, with rain in Ireland and at Pembroke. Heavy falls of rain over Ireland, Wales, and the north of England later, slight falls in other parts of the Kingdom, and in some parts of northern Europe; a heavy fall at Brussels.

Temperature changing somewhat irregularly. Morning readings, 70° to 85° over the Mediterranean, and exceeding 60° over the greater part of central and western Europe; below 60° over the more northern countries, and as low as 48° at Archangel, 50° at Nairn, 51° at Sumburgh Head, 52° at Stornoway and Parsonstown. Rising later to between 90° and 100° over Spain, to between 85° and 90° over the southern half of France and in Italy, to 70° and more at some of our own southern stations, and to 60° and more over Ireland, England, and Sweden, but failing to reach 60° in Scotland and the west of Norway.

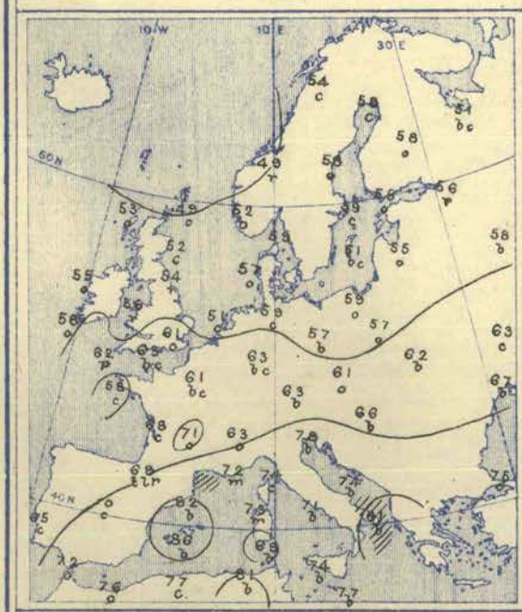
Wind very variable; Easterly in the south and south-west of France, but Westerly over England, the Channel, the north of France, Holland, and north Germany; Southerly in the Baltic Provinces and Finland. Backing to between South and East at the Irish stations. The Easterly wind becoming much more general in the north and north-west of our Islands later, but South-Westerly and Southerly winds continuing in the south, and blowing strongly in the Channel.

Barometer highest, 30·1 ins. and more to 30·0 ins. over the southern and south-eastern countries of Europe generally. Lowest, 29·5 ins. and less in a depression over Norway, 29·8 ins. and less in another over north-eastern Russia, and 29·9 ins. and less in a third off the west of Ireland. Latter disturbance advancing north-eastwards later.

Monday, 8th August.

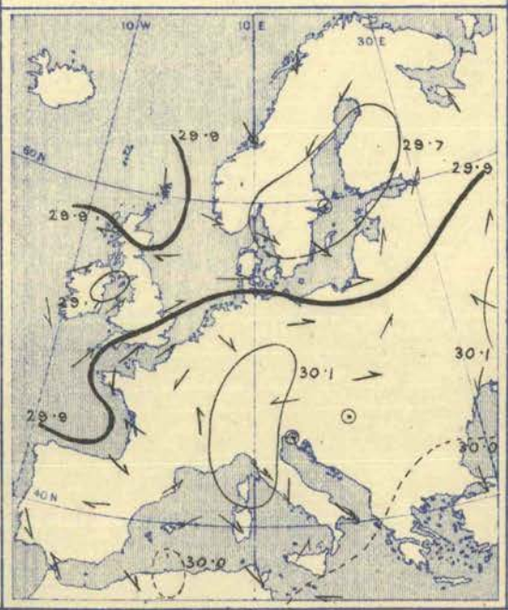
Temperature and Weather.

8 a.m.

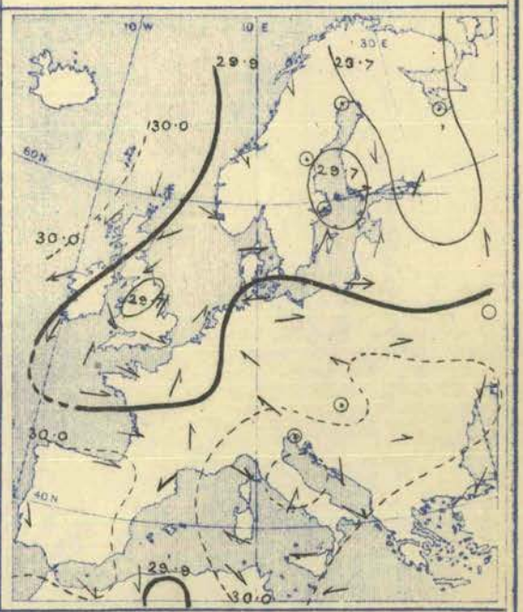


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright all over eastern, southern, and the greater part of south-western Europe, as well as in many parts of France and Germany; dull and unsettled over the British Islands and north-western Europe, with rain in many places. Considerable rain during the day or night over the greater part of Ireland, England, and Brittany; lightning at the North Foreland, thunderstorm at Lyons. Showers locally over northern Europe (heavy at Helsingfors), thunderstorm over the southern and eastern parts of France.

Temperature continuing above 80° at several Mediterranean stations, and above 70° at the remainder, as well as at Constantinople and Limoges; above 60° over Germany, France, and the southern half of England; lower elsewhere. Lowest, 48° at Nairn, Sumburgh Head, and Christiansund, 51° at Archangel, Wick, and Leith. Rising during day to between 70° and 77° over the inland parts of England, and about 10° higher over France, but not reaching 60° at our northern stations, and falling decidedly all over the country at night; exceeding 80° over Italy, and 100° over Algeria.

Wind very variable and light over all the south-eastern, southern, and south-western countries; South-Westerly over England, Westerly over Germany and Denmark, Southerly over the Baltic Provinces; but Northerly over the northern half of Scandinavia. Easterly over Scotland, North-Easterly over Ireland. The North-Easterly current spreading south-eastwards later, and blowing very strongly on our north-east coasts.

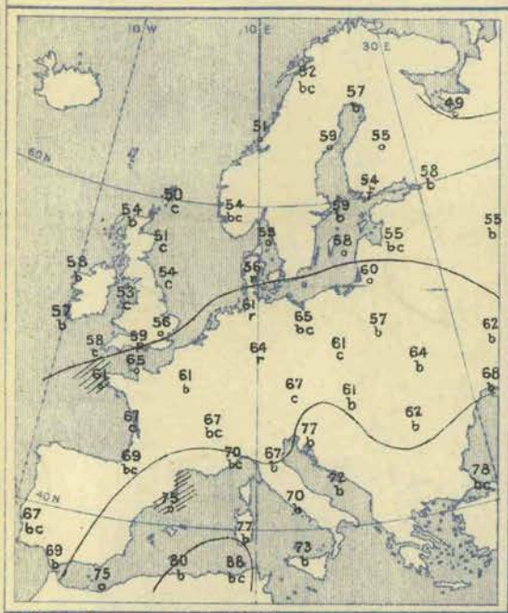
Barometer highest, 30·1 ins. and more to 29·9 ins. over the major part of the Continent, and exceeding 29·9 ins. over the Shetland Islands and north of Scotland. Lowest, 29·7 ins. and less in a depression over the Gulf of Bothnia and Sweden, and in another system covering the Irish Sea, Ireland, and the north of England. Latter system becoming very complex during the day, increasing in size and moving eastwards. The northern high pressure area increasing both in size and intensity, and spreading southwards—that over the Continent giving way.

Judd & Co Ltd, Lith. 63, Carter Lane, Doctors' Commons.

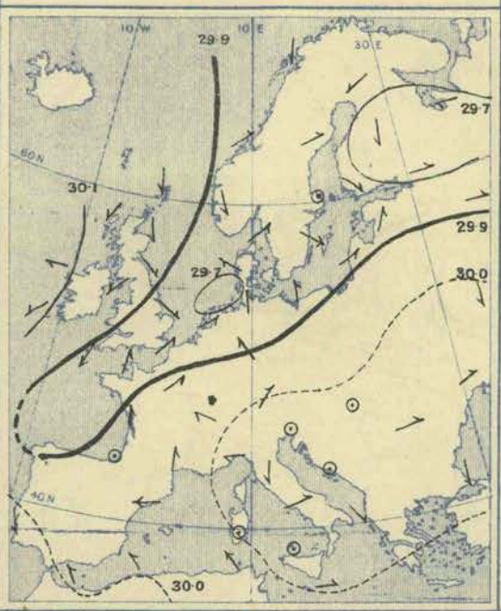
III.—SUMMARY OF WEATHER OVER EUROPE.

Tuesday, 9th August.

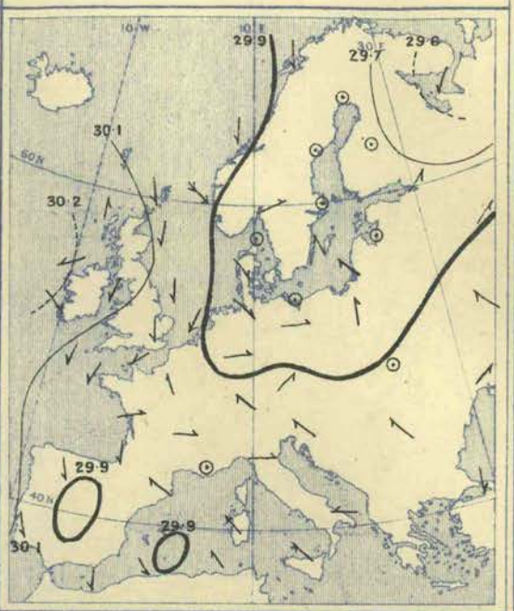
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fine and bright over eastern and south-eastern Europe, also in some parts of Spain, in Ireland, the west of Scotland, and Lapland, cloudy or overcast elsewhere; dull and unsettled over the south-east of England, the Netherlands, Denmark, and north Germany, with rain in several places. Rain during day in all the last-named districts, in Germany, and in Norway; a heavy fall, with thunder and lightning, in the south of France; none over Ireland and Scotland.

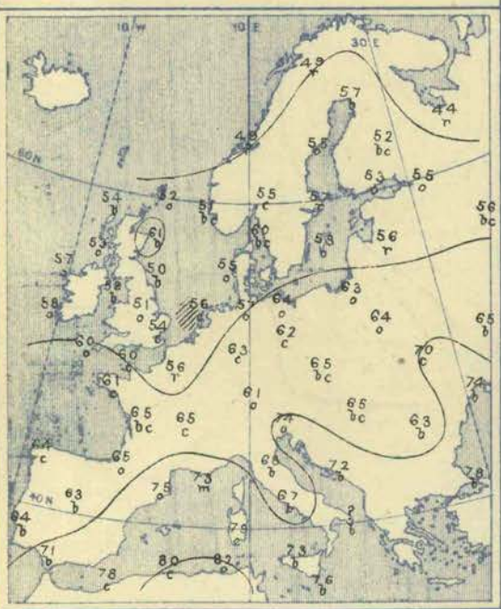
Temperature fallen over our Islands generally, and low for the time of year. Morning readings, exceeding 80° at Algiers and La Calle, above 70° on the Mediterranean and Adriatic coasts, and at Constantinople, and above 60° over the greater part of western and central Europe. Lowest, 49° at Archangel, 50° at Sumburgh Head and Parsonstown, and below 60° over the United Kingdom generally. Not reaching 65° over Great Britain or Ireland during the day, and failing to reach 60° in many places, but exceeding 75° over north Germany, 80° and more in the south of France, 90° and more over Italy and Algeria. Succeeding night cold over British Islands (37° to 39° on our north-east coasts). Frost on the grass at inland stations in England.

Wind (1) Northerly, light to moderate, over the British Isles, the northern parts of the North Sea, Scandinavia, and Finland; (2) South-Westerly to Southerly, but variable over the north of France, north Germany, and the Baltic Provinces; (3) light and anticyclonic over south-eastern Europe and the Mediterranean. Veering to North-East in the English Channel later, and very strong Northerly winds setting in on the eastern and southern shores of the North Sea, while Easterly breezes prevailed over Finland.

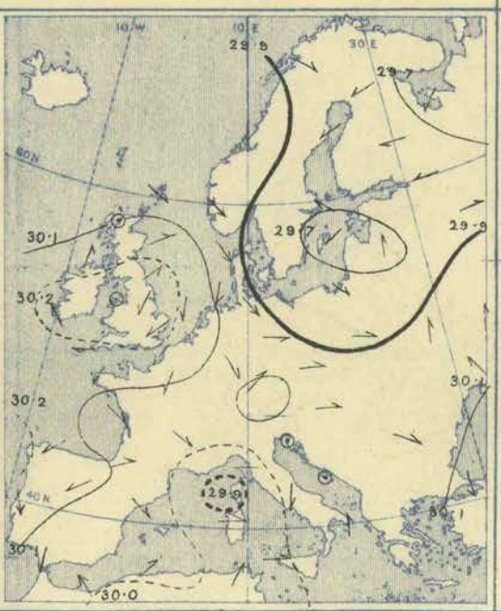
Barometer highest, (1) 30·0 ins. and more to 29·9 ins. over all the south-eastern and southern parts of Europe, (2) 30·1 ins. and more to 29·9 ins. over Ireland, Scotland and the north-western half of England. Lowest, 29·7 ins. and less in a depression over Finland and northern Russia, and in another over the North Sea, and below 29·8 ins. over the whole of northern Europe, as well as in an extensive "V" stretching from Scandinavia across the German Ocean, the south of our Islands, and the north of France, to the Bay of Biscay. Rising throughout our Islands during day—quickly in the south-east. Anticyclone spreading over us from Westward.

Wednesday, 10th August.

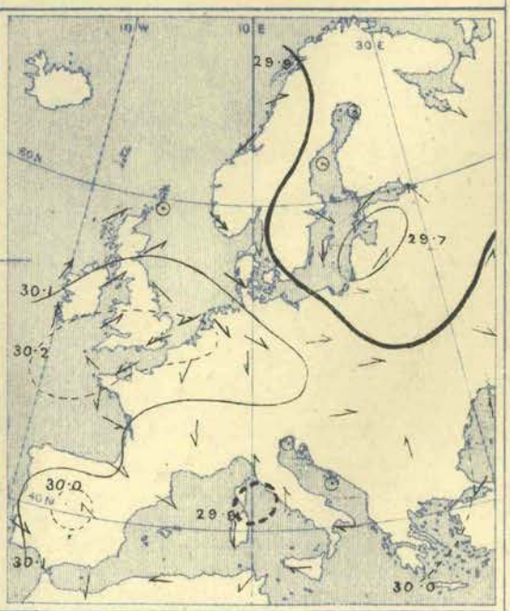
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fine and bright (1) over south-eastern, southern, and south-western Europe; (2) over Scotland and most of the northern parts of England; (3) over Finland; cloudy or overcast elsewhere, and unsettled over the Baltic and north Germany. Rain later over the northern and north-western parts of our Islands, but amounts small except in the Minch; considerable quantities over Norway, at Clermont, Sanguinaire, Munich, and Rome. Heavy dew over England at night.

Temperature showing further fall over England and France. Morning readings, however, still ranging between 70° and 82° over the Mediterranean and greater part of southern Europe, and exceeding 60° over central Europe; but lowest, 44° at Archangel, 49° at Bodö and Christiansund, 50° at Parsonstown, 51° at Oxford, Loughborough, and York. Rising later to between 80° and 88° over the United Kingdom, and to between 70° and 80° over the central and southern parts of France. Succeeding night very cold over England; frost on grass again reported in a few places.

Wind (1) strong to a gale from North and North-West on the eastern shores of the North Sea, North-Westerly to Westerly over Germany, South-Easterly to Easterly over Finland; (2) anticyclonic over the British Islands and north of France—the North-Easterly wind in the Channel being moderate to fresh in force, while the Southerly current in the north-west was feeble. The North-Easterly wind falling light later, but the South-Westerly freshening a little, and spreading considerably over Scotland and Ireland.

Barometer highest, (1) 30·2 ins. and more to 30·1 ins. in an anticyclone covering the British Islands, the north of France, and the western parts of Spain; (2) 30·1 ins. and more over southern Russia. Lowest, 29·7 ins. and less to 29·8 ins. in a depression covering the south of Sweden, the Baltic, and western Russia, and about 29·95 ins. in another lying over the Riviera, Corsica, Sardinia, and Tunis. Falling on our northern and western coasts during the day, rising over England, France, and Germany.

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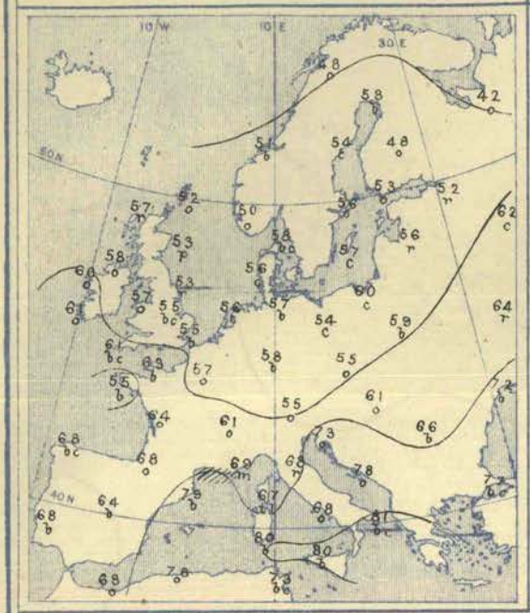
III.—SUMMARY OF WEATHER OVER EUROPE

Thursday, 11th August.

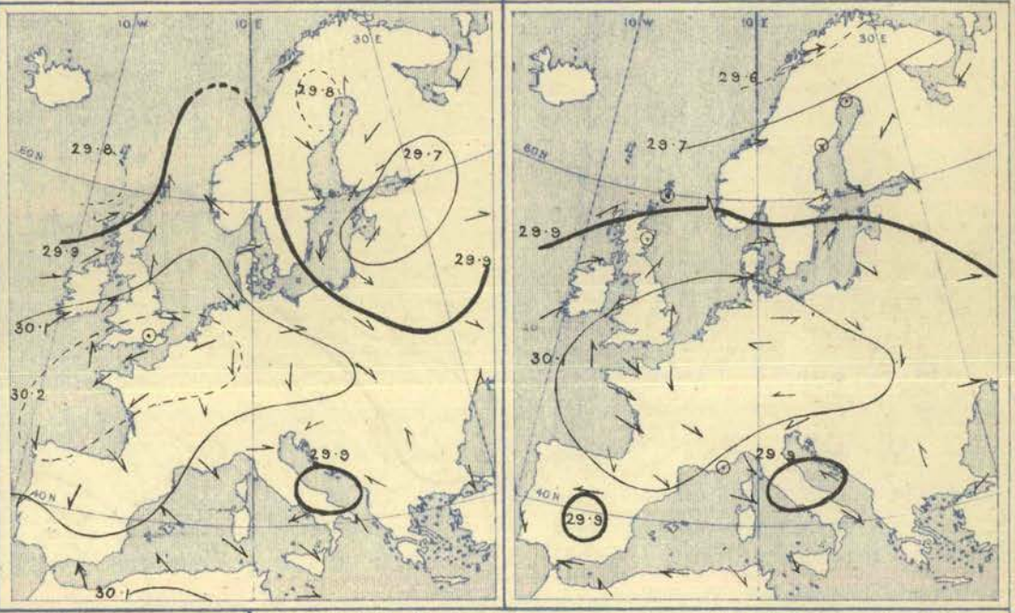
Temperature and Weather. — 8 a.m.



Weather in morning fine and bright over the southern parts of Europe and the Mediterranean, as well as in the Channel and the south and east of England, temporarily clear in the north of Finland also; cloudy or overcast in the west and north of our Islands, and also over Russia, with rain in several places. Slight rain during day in Ireland and Scotland, and a larger quantity in Norway; local showers at Cuxhaven and Nice.

Temperature rising briskly over the United Kingdom after a cold night, fallen decidedly over central Europe. Morning readings, 81° at Brindisi, 80° at Palermo, and above 70° over the greater part of the Mediterranean and in Dalmatia; below 60° over the greater part of the United Kingdom and central Europe, and lowest of all, 42° at Archangel, 48° at Bodö and Kuopio, 50° at Skudesnaes, 51° at York. Rising later to 70° or more over several of the inland parts of Ireland and England, to 75° and more over the southern half of France, and to 88° at Lisbon, and in Italy, and to 100° and more over some parts of Algeria.

Barometer and Wind. — 8 a.m. and 6 p.m.

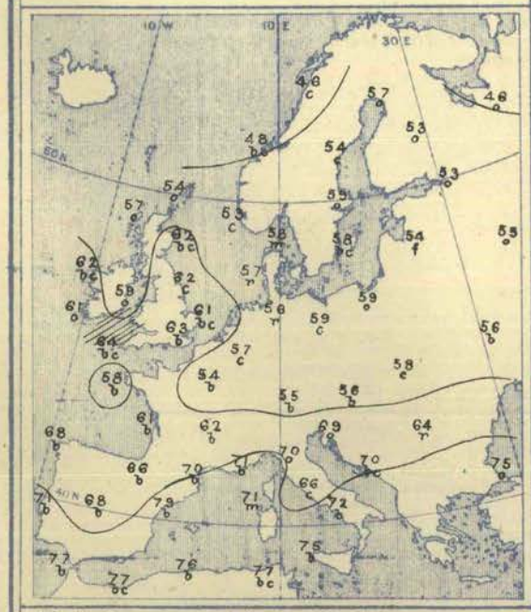


Wind (1) light and anticyclonic over western Europe; (2) South-Westerly and Southerly over Ireland and Scotland, South-Easterly and Easterly in Norway; (3) North-Easterly over the north of Russia, Northerly and North-Westerly over the Baltic and Germany, Westerly at Moscow; (4) very variable over the Mediterranean and south-eastern Europe. South-Westerly winds spreading all over north-western Europe later, and becoming strong on the Norwegian coasts.

Barometer highest, 30·2 ins. and more to 30·1 ins. in an anticyclone covering the greater part of Ireland, England, Germany, France, the Bay of Biscay, and Spain. Lowest, 29·7 ins. and less in a depression over the Baltic Provinces, 29·8 ins. and less in another over the north of Sweden, 29·9 ins. and less in a third off our north-west coasts, and below 30·0 ins. over the whole of south-eastern Europe, with Italy, Sicily, Sardinia, and Corsica. Falling decidedly over north-western Europe all day, especially in Scotland, and anticyclone moving south-eastwards.

Friday, 12th August.

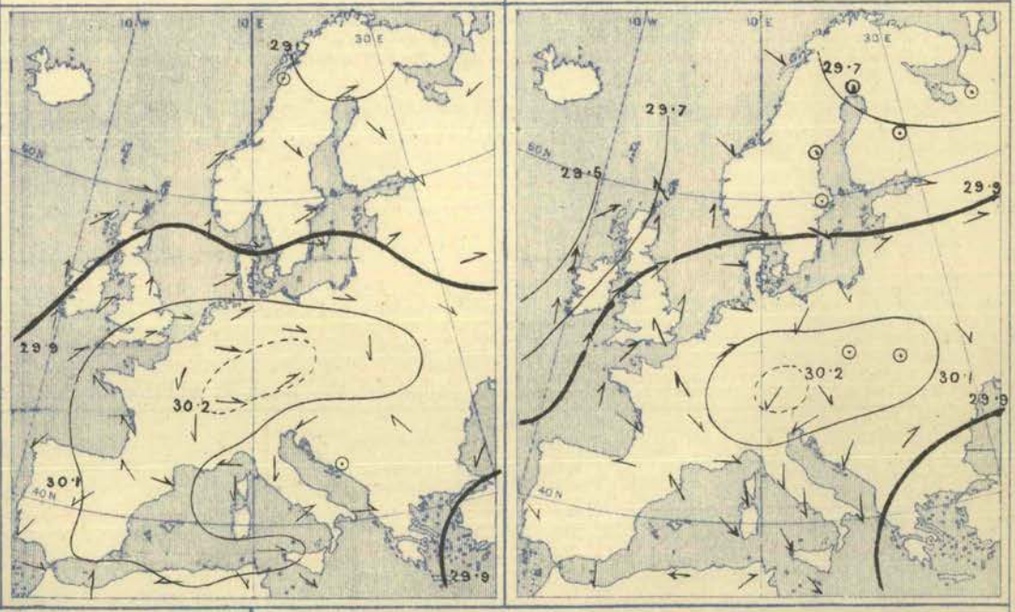
Temperature and Weather. — 8 a.m.



Weather in morning remaining fine and bright over all the southern half of Europe, as well as over the north of France and greater part of England; variable elsewhere, cloudy and unsettled over Ireland and Scotland. A great deal of rain later at our western stations generally, and at Sumburgh Head, smaller quantities in Scotland, and slight falls at some Baltic stations; fine and bright over the eastern half of England, as well as in Germany, France, and Spain. Heavy local rain at Hermanstadt. Bright aurora seen in Norway and over the major part of Great Britain at night.

Temperature risen generally over north-western Europe. Morning readings exceeding 70° on the shores of the Mediterranean and south-eastern Europe; below 60° over central and northern Europe as a whole, and as low as 46° at Archangel and Bodö, 48° at Christiansund, 53° at Kuopio, St. Petersburg, and Skudesnaes. Rising later to between 70° and 78° over Great Britain, Germany, and the northern half of France, and to 80° and more over the southern parts of France, Italy, and the Iberian Peninsula, to 90° and more over Algeria.

Barometer and Wind. — 8 a.m. and 6 p.m.



Wind light and extremely variable over nearly all the southern and central parts of Europe, but North-Easterly over Spain, Easterly over the Bay of Biscay, Southerly and South-Westerly over the whole of the British Islands, the North Sea, and west of Norway; Westerly over north Germany and the Baltic, North-Westerly over Finland. Southerly and South-Westerly wind freshening in the west of our Islands later, and blowing a gale from South at Belmullet.

Barometer highest, 30·2 ins. to 30·1 ins. over the whole of Germany, France, the east of Spain, and a great deal of the Mediterranean. Lowest, 29·7 ins. and less in a depression over Lapland, 29·8 ins. and less in another approaching our north-western coasts from the Atlantic, and below 30·0 ins. over the Balkan Peninsular and Italy. Falling decidedly throughout our Islands during the day, and the fall spreading to all parts of north-western Europe, as the depression in the north-west drew nearer to our coasts, and apparently grew deeper.

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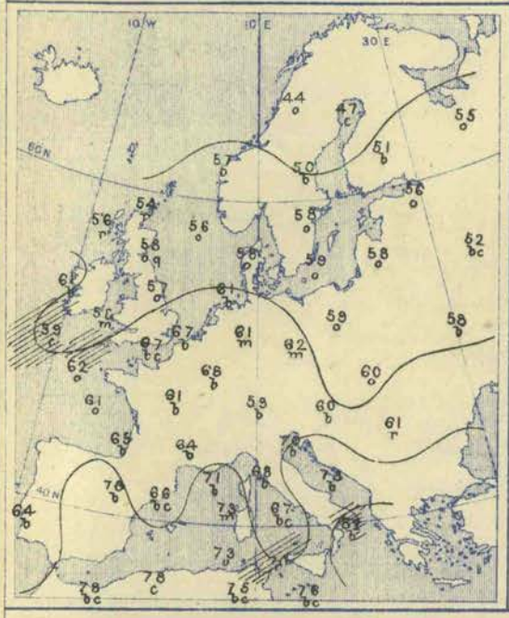
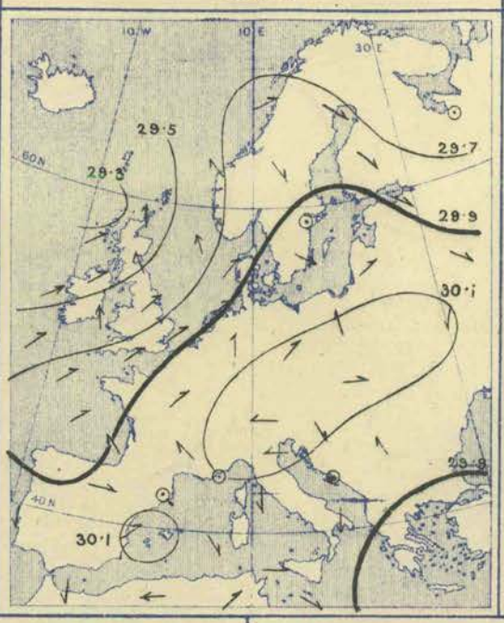
III.—SUMMARY OF WEATHER OVER EUROPE.

Saturday, 13th August.

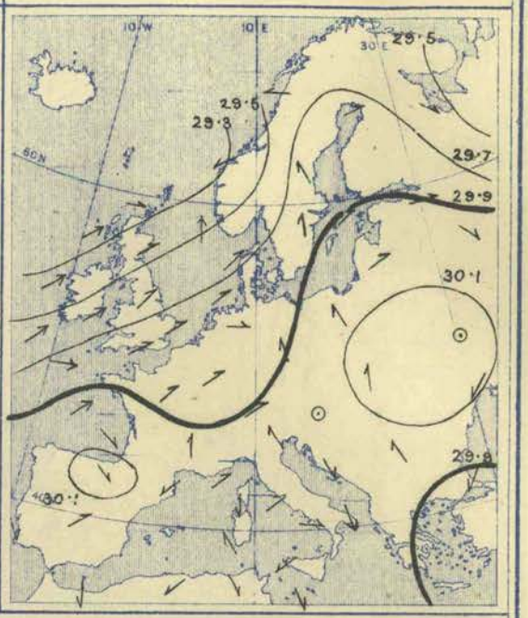
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather continuing fine and bright over eastern, central, and southern Europe, the Netherlands, and south-eastern half of England; temporarily fine over the north-west of Ireland; dull and unsettled elsewhere, with rain at many of our western and north-western stations and an unsettled appearance even in the south-east. Rain later throughout our Islands and their neighbourhood, but not in large quantities, thunderstorms at some of the north-western and northern stations.

Temperature exceeding 70° over the Mediterranean shores generally (82° at Brindisi), and exceeding 60° over France and the greater part of our Islands; below 60° over central, eastern, and northern Europe, and as low as 44° at Bodö, 49° at Haparanda, 50° at Hernosand, and 51° at Christiansund and Kuopio. Rising later to 90° and more over Algeria and Spain, to between 80° and 90° over Italy, Austria, and the southern parts of France, and to 70° and more over England, but failing to reach 60° in the far north.

Wind light and anticyclonic over eastern, central, southern, and south-western Europe; fresh and cyclonic in the north-west; South-Westerly on our southern and south-western coasts, Southerly both in the north-west and east and over the North Sea, South-Easterly in the west of Norway; veering and becoming stronger over our Islands later, and blowing a moderate gale at Skudesnaes.

Barometer highest, 30·1 ins. and more to 30·0 ins. in an anticyclone covering the central and greater part of western Europe. Lowest, about 29·3 ins. in a depression covering the north-western half of our Islands, and having its centre between the Hebrides and Farö Isles; gradients moderate over the United Kingdom. Continuing to fall over the north-western countries during day, but no complication appearing.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

BRIGHT SUNSHINE Values for the Week in addition to those found on page 188.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	25·0	?	23	?	EASTBOURNE	39·6	?	38	?
OSWALDKIRK (Yorkshire)	22·7	?	22	?	TENBY	30·5 *	?	30 *	?
WORKSOP	21·3	−13·4	20	−13	NEWQUAY	42·9	?	42	?
THURCASTON (Leicestershire)	32·6	− 3·7	31	− 4	TORQUAY	48·0 *	?	47 *	?
MARGATE	36·1	?	35	?	ARLEY COTTAGE (County Cavan)	31·1	?	30	?
WESTBOURNE (Sussex)	43·9 *	?	43 *	?	GUERNSEY	59·8 *	?	59 *	?
BRIGHTON	45·8	?	44	?					

* The values at Westbourne, Tenby, Torquay and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.
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VOL. IX. No. 33.] *Third Series.* WEEK ENDING SATURDAY, 20TH AUGUST, 1892. [*Price 6d.* [*Annual subscription post paid.* £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years' observations (1871-90). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the ten years 1881-90. RAINFALL.—*The Mean amounts* are those for the corresponding periods in the twenty-five years 1866-90, but the *Mean numbers of Rainy Days* are those for the ten years 1881-90, only. BRIGHT SUNSHINE.—*The Mean values* employed are those for the corresponding periods in the ten years 1881-90.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 194.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1892. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	66	37	60·3	48·3	54·0	1 below.	84	+ 3	0	0	1202	− 13	754	+212
	1. SCOTLAND, EAST	73	34	63·4	49·0	55·8	0 (average)	97	− 6	0	0	1432	−157	819	+241
	2. ENGLAND, N.E.	71	43	64·7	52·7	58·4	0 (average)	115	+ 7	0	0	1558*	−117	684	+186
	3. ENGLAND, EAST	83	44	71·3	54·2	62·2	2 above.	141	+20	0	0	1864	− 95	771	+210
	4. MIDLAND COUNTIES	79	41	70·0	52·2	60·5	1 above.	130	+15	0	0	1879	− 70	802	+250
	5. ENGLAND, SOUTH	80	44	70·6	56·1	62·9	2 above.	146	+17	0	0	2034	− 77	554	+138
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	67	36	62·8	49·9	55·9	1 below.	97	− 2	0	0	1538	− 89	610	+193
	7. ENGLAND, N.W.	72	39	64·8	53·1	58·6	0 (average)	116	+ 6	0	0	1631	− 72	579	+165
	8. ENGLAND, S.W.	76	36	67·5	53.6	60·2	1 above.	127	+ 9	0	0	1934	− 18	433	+117
	9. IRELAND, NORTH	69	40	63·2	51·1	56·8	1 below.	104	0	0	0	1680	− 68	484	+122
	10. IRELAND, SOUTH	71	45	64·9	52·9	58·6	0 (average)	116	+ 5	0	0	1965	− 15	410	+132
	— CHANNEL ISLANDS	81	54	69·5	58·5	63·7	2 above.	152	+20	0	0	2210	+ 60	164	+ 42

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 194.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1892. Number of Rainy Days.	Difference from Mean.	Total Fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1892. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of In.	10ths of In.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	12	3 more.	153	+ 3	26·8†	− 1·2†	21	− 6	20	− 1	900	+ 38	29	+ 1
	1. SCOTLAND, EAST	5	11	3 more.	123	0	15·9	− 2·8	34	− 5	34	− 7	1020	+ 17	33	+ 1
	2. ENGLAND, N.E.	3	4	2 less.	120	+ 8	14·8*	− 0·7	28	− 4	27	− 6	967	+ 47	31	+ 1
	3. ENGLAND, EAST	3	15	10 more.	111	+ 2	14·4	− 0·9	46	+ 5	46	+ 2	1150	+ 44	38	+ 2
	4. MIDLAND COUNTIES	3	2	4 less.	103	− 6	13·2	− 3·8	43	+ 6	43	+ 6	1083	+ 96	35	+ 3
	5. ENGLAND, SOUTH	4	9	4 more.	90	−15	11·1	− 5·0	45	+ 5	45	+ 4	1270	+205	42	+ 7
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	6	18	9 more.	119	−11	25·1	− 3·9	38	+ 3	38	+ 5	1088	+ 93	35	+ 3
	7. ENGLAND, N.W.	3	4	3 less.	119	+ 1	19·1	− 0·5	36	+ 1	35	+ 2	1093	+107	35	+ 3
	8. ENGLAND, S.W.	4	3	5 less.	106	−15	14·5	− 8·6	49	+ 3	49	+ 6	1291	+133	42	+ 4
	9. IRELAND, NORTH	5	13	5 more.	128	−12	21·0*	− 0·6	28	− 1	27	0	976	+ 63	32	+ 2
	10. IRELAND, SOUTH	5	19	11 more.	115	−13	22·2	− 1·1	30	− 6	30	− 5	1066	+ 16	35	+ 1
	— CHANNEL ISLANDS	5	8	2 more.	106	−22	14·3	− 3·9	53	− 4	53	− 4	1510	+152	50	+ 5

Bright Sunshine.—For several of the stations there are no "mean" values available, and the "difference from the mean" in some of the districts is consequently that of only a few of the stations.

General Remarks.

Weather during this period varied considerably in different parts of the Kingdom. In the north-west and north it was very unsettled, with a good deal of rain, until nearly the end of the week; in the more southern and south-eastern districts, however, it was generally fair and dry, except on Thursday and Friday, when sharp thunderstorms, accompanied by very heavy rainfall, were experienced. By Saturday the conditions had become fine and bright on all excepting our extreme northern coasts.

Earthquake.—During the night of the 17th-18th, distinct shocks of earthquake occurred at some of our western and south-western stations.

Temperature slightly exceeded the mean over the greater part of England and in the Channel Islands, but did not materially differ from the normal over Ireland and Scotland. The highest of the maxima were registered on the 15th in most parts of Scotland, on the 17th over England, and on the 20th in Ireland, and they ranged from 83° in England E., 81° in the Channel Islands, 80° in England S., and 79° in the Midland Counties, to 67° in Scotland W., and 66° in Scotland N. The lowest of the minima occurred during the early morning of the 20th, and ranged from 24° in Scotland E., and 36° in Scotland W. and England S.W., to 45° in Ireland S., and to 54° in the Channel Islands. Over England the minima during the greater part of the week were rather high.

Rainfall exceeded the mean in all the Irish and Scotch districts, but over England the fall was less equable. In England E. there was a very large, and in England S. a fairly large, excess (due to the thunderstorms of Thursday and Friday), but in the other districts there was a considerable deficit.

Bright Sunshine was more prevalent than during the preceding week in nearly all districts. In almost all parts of England and in Scotland W. it exceeded the mean, but elsewhere it again showed a deficit.

Barometer and Wind.—During the earlier part of the week the barometer was highest in the south, and lowest in the north and north-west, and the winds were consequently South-Westerly to Westerly, and generally moderate to fresh in force. Later on, however, some shallow disturbances advanced over our southern districts from the south-westward, when the wind became light from the Eastward and South-Eastward. By the end of the week these systems were passing away to the eastward, and a "ridge" of comparatively high pressure was formed over Great Britain, with Northerly winds in the eastern, and Southerly breezes in the western parts of the Kingdom.

* This value has been altered owing to the receipt of further information.

† The corresponding values in last week's report should read "25·6" and "−1·3."

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II.—DATA from which the SUMMARY on page 193 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head ♆	59	46	56·0	47·9	51·7	− 1·1	68	0	6	0·77	+0·05	*	*	*	*
	Stornoway	62	43	59·6	49·0	54·0	+ 0·2	84	0	5	1·02	+0·19	25·8	− 1·3	25	− 1
	Wick	66	40	61·0	48·0	54·1	− 0·3	85	0	6	0·79	+0·20	*	*	*	*
	Lairg ♆	64	37	61·2	46·9	53·6	− 0·9	81	0	5	0·68	+0·06	*	*	*	*
	Glencarron ♆	64	44	60·7	47·1	53·5	− 0·5	81	0	5	1·30	−0·20	*	*	*	*
	Fort Augustus ♆	66	39	61·9	49·6	55·4	− 0·3	94	0	5	1·44	+0·75	15·9	?	15	?
	Fort William ♆	66	42	61·5	49·8	55·5	− 0·8	95	0	6	2·06	+0·76	21·1	?	20	?
1. SCOTLAND, E.	Nairn	68	40	64·3	48·3	55·8	− 0·7	97	0	4	0·43	−0·18	*	*	*	*
	Aberdeen	67	43	62·3	50·9	56·3	+ 0·1	100	0	6	1·50	+0·81	27·7	− 7·1	27	− 7
	Braemar ♆	64	34	60·2	46·4	52·9	− 0·6	76	0	6	1·30	+0·46	27·8†	?†	27†	?†
	Ochtertyre ♆	73	38	65·9	48·1	56·5	+ 0·5	102	0	6	1·43	+0·63	*	*	*	*
	Leith ♆	70	43	64·9	50·9	57·5	− 0·6	109	0	4	0·79	+0·20	*	*	*	*
	Marchmont ♆	67	43	62·9	49·1	55·6	− 0·2	95	0	3	0·90	+0·11	41·5	?	41	?
2. ENGLAND, N.E.	Alnwick Castle	67	43	62·4	51·3	56·5	+ 0·1	102	0	4	0·76	+0·06	*	*	*	*
	Durham	71	46	64·8	50·4	57·2	− 0·6	106	0	4	0·65	+0·03	27·7	− 6·4	27	− 6
	Shields	68	46	63·3	51·1	56·8	− 0·7	104	0	3	0·46	−0·17	*	*	*	*
	Scarborough ♒	70	53	65·6	54·4	59·7	+ 1·6	124	0	4	0·11	−0·48	*	*	*	*
	York	71	53	67·4	54·0	60·3	+ 1·4	128	0	3	0·08	−0·50	26·9	− 6·2	26	− 6
	Spurn Head	69	53	64·9	55·1	59·7	+ 0·3	124	0	2	0·14	−0·28	*	*	*	*
3. ENGLAND, E.	Hillington ♒	79	46	71·4	53·9	62·1	+ 2·3	141	0	3	1·40	+0·80	40·3	+ 1·4	40	+ 1
	Yarmouth	77	52	68·6	56·4	62·1	+ 1·9	141	0	3	1·60	+1·12	*	*	*	*
	Geldeston	82	48	71·2	55·0	62·6	+ 2·6	144	0	3	2·00	+1·58	40·7	− 2·3	41	− 2
	Cambridge	83	46	74·1	53·7	63·3	+ 2·5	149	0	2	1·31	+0·81	50·2	+10·5	50	+10
	Rothamsted	78	44	71·2	51·8	60·9	+ 1·3	132	0	5	1·11	+0·56	51·7	?	52	?
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	71	47	68·1	51·0	59·0	− 0·2	119	0	2	0·05	−0·48	*	*	*	*
	Loughborough	74	47	71·7	53·6	62·1	+ 1·7	141	0	2	0·19	−0·39	*	*	*	*
	Stamford (Ketton Hall)	79	46	73·1	51·1	61·4	+ 1·2	136	0	4	0·26	−0·23	*	*	*	*
	Cheadle ♒	70	48	66·0	51·1	58·1	+ 1·0	113	0	2	0·10	−0·71	*	*	*	*
	Churchstoke ♒															
	Hereford ♒	76	41	71·1	51·5	60·7	+ 0·9	131	0	3	0·08	−0·46	*	*	*	*
	Cirencester	73	45	69·0	52·1	60·0	+ 1·6	126	0	3	0·24	−0·45	50·6	+10·1	51	+11
	Oxford	77	49	71·0	54·9	62·5	+ 2·1	144	0	3	0·44	−0·06	54·4	+13·4	54	+13
5. ENGLAND, S.	London	80	50	73·0	56·0	64·0	+ 2·2	154	0	3	0·39	+0·19	46·6†	+ 9·8†	47†	+10†
	North Foreland	80	54	71·0	57·9	64·1	+ 4·0	155	0	3	1·61	?	*	*	*	*
	Strathfield Turgiss ♒	79	44	72·8	53·4	62·5	+ 1·9	144	0	5	0·86	+0·38	*	*	*	*
	Dungeness	73	49	69·3	57·4	63·0	+ 1·3	147	0	4	0·59	+0·12	*	*	*	*
	Hastings (St. Leonards)	76	54	69·7	57·8	63·4	+ 1·5	150	0	5	0·82	+0·28	48·4	+ 3·0	48	+ 2
	Southampton	76	51	71·5	56·1	63·3	+ 1·7	149	0	4	0·97	+0·39	45·4	− 0·1	45	− 1
	Hurst Castle	70	52	68·1	57·6	62·5	+ 0·8	144	0	5	1·24	+0·72	*	*	*	*
	Stowell ♒	72	45	69·2	52·8	60·5	+ 1·1	130	0	4	0·34	?	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	65	45	61·7	49·5	55·2	− 1·4	92	0	6	1·25	+0·07	*	*	*	*
	Glasgow	66	45	62·6	50·7	56·3	− 0·1	100	0	6	2·06	+1·21	36·0	+ 6·9	36	+ 8
	Ardrossan	67	46	63·9	51·4	57·3	− 0·6	107	0	5	1·82	+0·97	*	*	*	*
	Glenlee ♆	66	36	63·5	46·9	54·7	− 1·1	89	0	6	2·17	+1·19	*	*	*	*
	Douglas (Isle of Man)	67	41	62·1	51·0	56·2	− 0·5	99	0	5	1·67	+0·86	40·1	+ 2·0	39	+ 1
7. ENGLAND, N.W.	Newton Reigny	68	39	64·7	48·6	56·2	+ 0·9	99	0	2	0·73	+0·03	34·1	+ 2·5	33	+ 2
	Stonyhurst	68	44	64·3	52·2	57·9	− 0·2	111	0	2	0·18	−0·89	35·5	+ 1·8	35	+ 2
	Blackpool ♒	70	54	65·6	55·4	60·2	+ 1·2	127	0	2	0·38	−0·32	29·0	− 6·6	28	− 7
	Manchester	69	45	65·5	52·4	58·6	+ 0·3	116	0	4	0·63	−0·14	*	*	*	*
	Liverpool Obsy. (Bidston)	72	51	65·9	54·7	60·0	+ 0·5	126	0	2	0·18	−0·47	*	*	*	*
	Llandudno ♒	69	49	65·2	53·9	59·2	− 0·7	120	0	2	0·12	−0·48	43·3	+ 8·1	43	+ 8
	Holyhead	66	51	62·7	54·3	58·3	− 0·7	114	0	5	0·69	+0·05	*	*	*	*
8. ENGLAND, S.W.	Llandovery	74	36	70·4	50·7	60·0	+ 0·8	126	0	4	0·21	−0·82	*	*	*	*
	Pembroke	64	52	62·4	56·0	59·0	0·0	119	0	5	0·38	−0·26	37·2	− 8·1	37	− 8
	Arlington (N. Devon)	70	44	67·3	52·3	59·4	+ 1·3	122	0	4	0·17	−0·95	*	*	*	*
	Cullompton ♒	76	42	71·4	50·9	60·5	+ 1·4	130	0	4	0·27	−0·35	56·6	+15·2	57	+16
	Falmouth	70	53	68·1	55·5	61·4	+ 1·5	136	0	3	0.29	−0·51	54·4	+ 7·9	55	+ 8
	Plymouth															
	Prawle Point	68	51	65·4	56·3	60·6	+ 1·1	130	0	3	0·22	−0·26	*	*	*	*
9. IRELAND, N.	Malin Head	66	51	61·4	53·1	57·0	− 0·4	105	0	4	0·45	?	*	*	*	*
	Londonderry	—	47	—	50·3	—	—	—	0	5	0·67	−0·21	*	*	*	*
	Edenfel (Omagh)	69	44	62·7	49·3	55·6	− 1·1	95	0	6	1·26	+0·45	*	*	*	*
	Mullaghmore	68	49	62·7	52·3	57·2	− 1·0	106	0	4	0·65	−0·16	*	*	*	*
	Belmullet	66	49	63·1	54·0	58·3	− 0·5	114	0	6	0·77	?	*	*	*	*
	Markree Castle	69	40	64·1	47·6	55·4	− 1·1	94	0	6	1·12	+0·32	28·9	+ 0·2	28	0
	Brookeborough	69	42	64·1	48·7	55·9	− 0·5	97	0	4	1·39	+0·61	*	*	*	*
	Armagh	67	47	64·0	50·1	56·6	− 0·7	102	0	5	2·02	+1·37	26·0	− 0·8	25	− 1
	Donaghadee	69	52	63·6	54·7	58·9	+ 2·2	118	0	5	2·25	+1·55	*	*	*	*
	Edgeworthstown	66	44	63·3	49·6	56·0	− 1·0	98	0	6	1·90	+1·13	*	*	*	*
10. IRELAND, S.	Dublin	69	50	65·5	53·8	59·3	+ 0·1	121	0	5	1·83	+1·21	33·6	− 2·8	33	− 3
	Parsonstown	68	48	64·6	50·6	57·2	− 0·9	106	0	6	2·88	+2·11	24·9	− 7·9	25	− 7
	Kilkenny	70	45	65·3	51·7	58·1	− 0·3	113	0	5	1·52	+0·74	*	*	*	*
	Waterford	69	47	66·7	52·7	59·3	0·0	121	0	6	1·50	+0·69	*	*	*	*
	Roche's Point	66	52	64·0	54·9	59·2	− 0·3	120	0	5	2·30	+1·48	*	*	*	*
	Valencia	67	47	64·1	53·7	58·6	− 0·3	116	0	5	1·72	+0·64	31·8	− 4·4	32	− 4
	Killarney	70	48	64·9	53·0	58·6	0·0	116	0	6	2·07	?	*	*	*	*
	Foynes	71	49	64·3	53·0	58·3	+ 0·3	114	0	4	1·58	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	71	56	68·1	58·3	62·9	+ 2·3	146	0	4	0.08	−0·47	*	*	*	*
	Jersey	71	54	70·9	58·7	64·4	+ 1·7	157	0	5	1·44	+0·92	50·9	− 3·9	51	− 4

Stations marked ♒ are in connection with the Royal Meteorological Society, and those marked ♆ with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

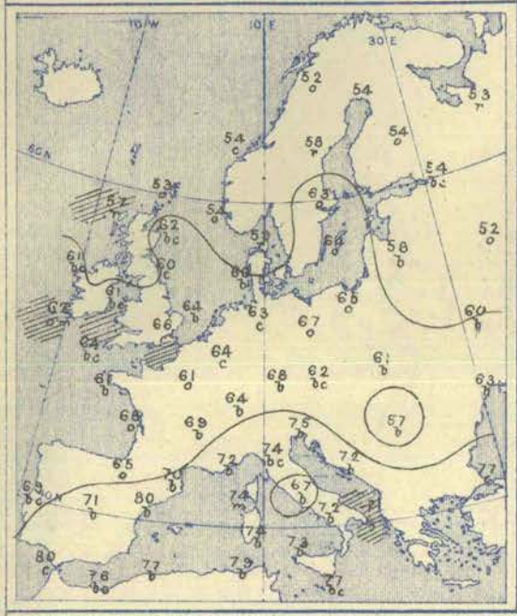
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory and the Meteorological Office, Victoria Street. For additional Reports of Sunshine see last page. NOTE.—It will be observed that Edenfel (Omagh) has been added to the list of stations in "Ireland, N."

III.—SUMMARY OF WEATHER OVER EUROPE.

Sunday, 14th August.

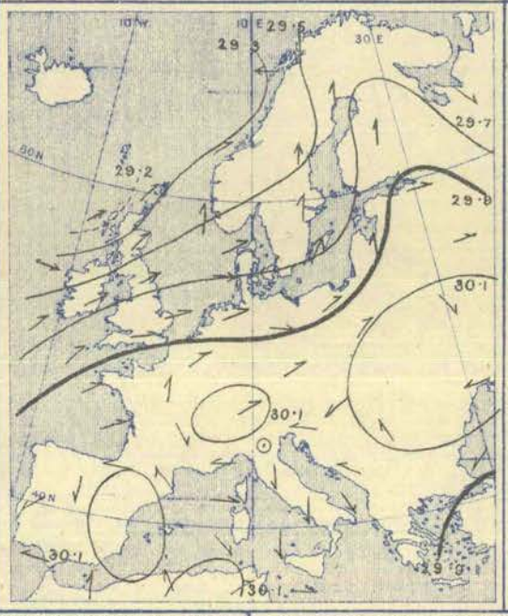
Temperature and Weather.

8 a.m.

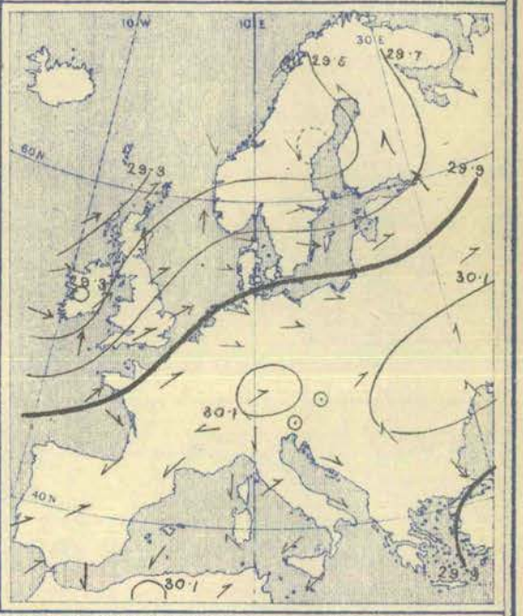


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over south-eastern and southern Europe, fair over the north of France and England; dull and rainy on our extreme north-west coasts, as well as in several parts of Scandinavia and the extreme north of Russia. Heavy rains falling later in many parts of Ireland and the north of Great Britain, showers on the eastern shores of the North Sea, over the Gulf of Bothnia, and at Paris, and sky becoming overcast temporarily in the south-east of England—but without rain.

Temperature showing little change. Morning readings, 70° to 80° at the Mediterranean stations, and exceeding 60° over central and western Europe, including the greater part of England and Ireland; lower elsewhere. Lowest of all, 51° at Ulcaborg, 52° at Bodö, 53° at Sumburgh Head, and also at Archangel, 54° at Skudenaes and St. Petersburg. Rising to 70° and more in many parts of England later, to between 80° and 90° over France and Italy, and to 90° and more over the Peninsula and Algeria.

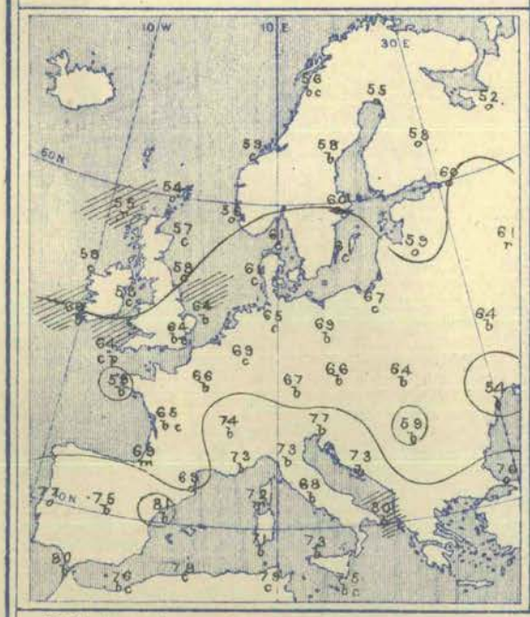
Wind varying between South-South-West and West-South-West over nearly the whole of the British Islands and the North Sea, and blowing rather strongly in some places; Southerly over the Baltic Provinces, Finland, and the Gulf of Bothnia, Easterly over Finmark; very variable and light over south-western, southern, and south-eastern Europe, Northerly and North-Westerly over Italy and Sicily. Blowing a moderate gale for some time on several parts of our western coasts later, and a strong gusty breeze over England.

Barometer highest, 30·1 ins. and more to 29·9 ins. over all the southern and eastern countries of Europe. Lowest, 29·2 ins. and less in a depression off the north-west of Scotland. Gradients moderate over north-western and northern Europe. A small secondary disturbance appearing over Ireland later, and moving rapidly in a north-easterly direction towards the North Sea, while another travelled from west to east across the northern parts of Norway and Sweden.

Monday, 15th August.

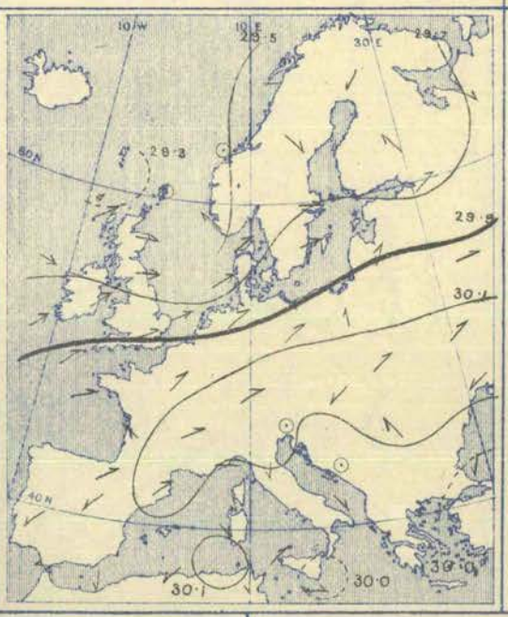
Temperature and Weather.

8 a.m.

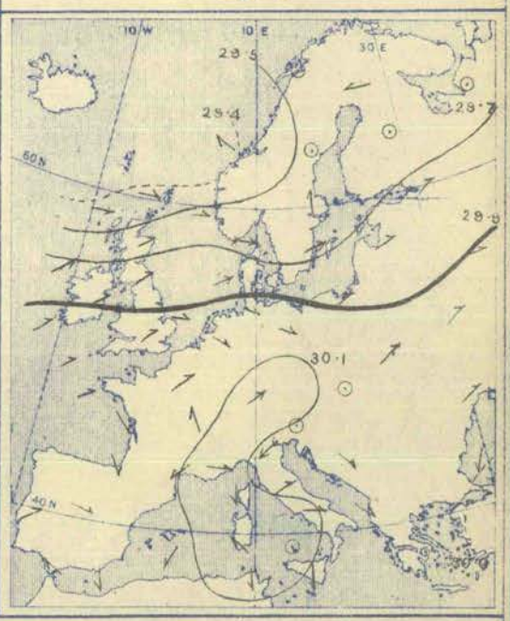


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning continuing fine and bright over south-eastern, central, and southern Europe, but changeable and somewhat unsettled in the north-west and north. Squally and showery in several parts of the British Islands, dull over the greater part of northern Europe. Considerable rain in Ireland later, and showers over Scandinavia, the northern parts of the Baltic, and Finland. Continuing very fine over France and central Europe.

Temperature rising over the more southern and central countries. Ranging between 70° and 80° in the morning at most of the Mediterranean stations, exceeding 60° over Germany, France, and the southern half of our Islands (71° at Münster), and exceeding 50° everywhere. Lowest, 52° at Archangel, 54° at Sumburgh Head, and 55° at Ulcaborg, Nairn, and Malin Head. Rising later to between 70° and 76° in many parts of England, to 90° and more in some parts of France, Italy, and Algeria, to 100° at Lisbon, and 105° at Madrid.

Wind very light and variable over eastern and southern Europe. Northerly to Westerly over the Mediterranean; strong to moderate from between West and South-West over the northern and north-western countries (a gale at the Helder), but Easterly in the south-west of Norway. Moderating in our Islands later, but blowing a gale in Denmark, and shifting to West in the south of Norway.

Barometer highest, 30·1 ins. and more to 29·9 ins. all over the central, western, and southern countries. Lowest, about 29·3 ins. in a depression off the north of Scotland, 29·5 ins. in another over the Gulf of Finland, and rather above 29·4 ins. in a secondary over the North Sea—to the eastward of the Firth of Forth. Rising decidedly in our Islands later, as the last-named disturbance moved eastwards quickly to the neighbourhood of Stockholm.

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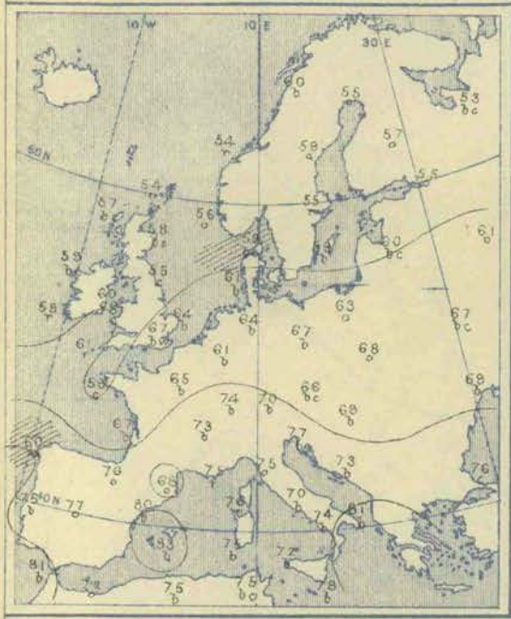
Tuesday, 16th August.

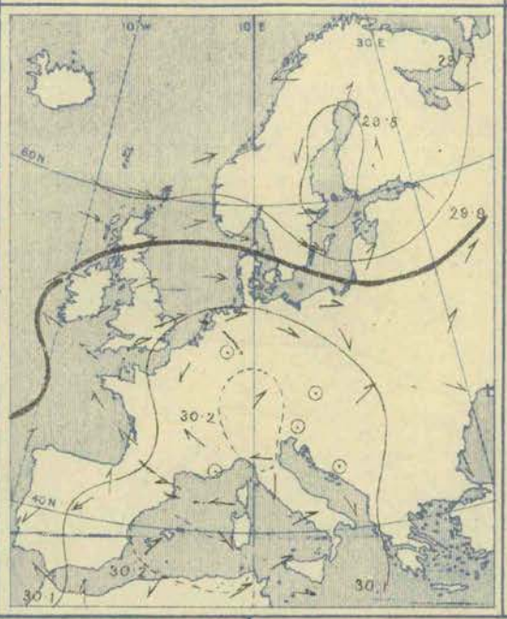
Temperature and Weather. 8 a.m.

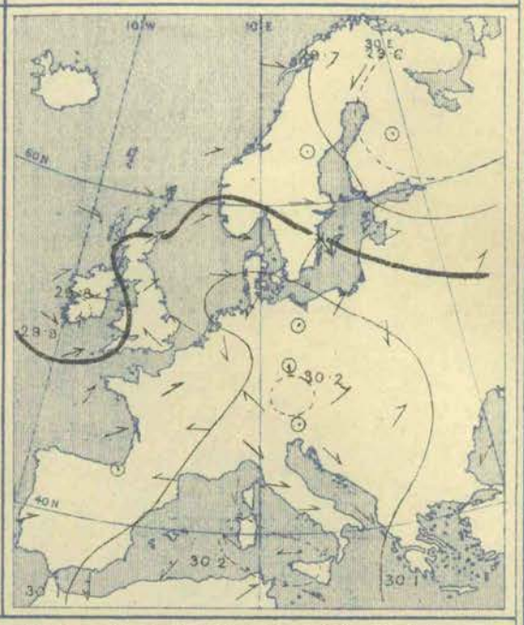


Weather in morning very fine and bright over eastern, central, and southern Europe, as well as over the eastern parts of England and Scotland, and on the eastern shores of the North Sea; cloudy or overcast on the Atlantic coasts of our Islands and Europe, with rain in many places, and a thunderstorm at Lorient. Considerable rain at the Irish stations later, and slight falls over Great Britain and northern Europe; thunder and lightning at Cambridge.

Temperature increasing over western Europe. Morning readings, 80° or more at Brindisi, Palma, Barcelona, Bilbao, and Coruna; below 70° over central Europe and the south of our Islands, below 60° elsewhere. Lowest, 53° at Archangel and Ulcaborg, 54° at Sumburgh Head and Christiansund, 55° on our north-east coasts. Rising later to between 90° and 108° in the south-western and central parts of France, and to between 80° and 90° over Italy, Austria, and Germany, and to between 68° and 75° over the inland parts of England; very hot over Spain also. Succeeding night warm generally.

Barometer and Wind. 8 a.m. and 6 p.m.



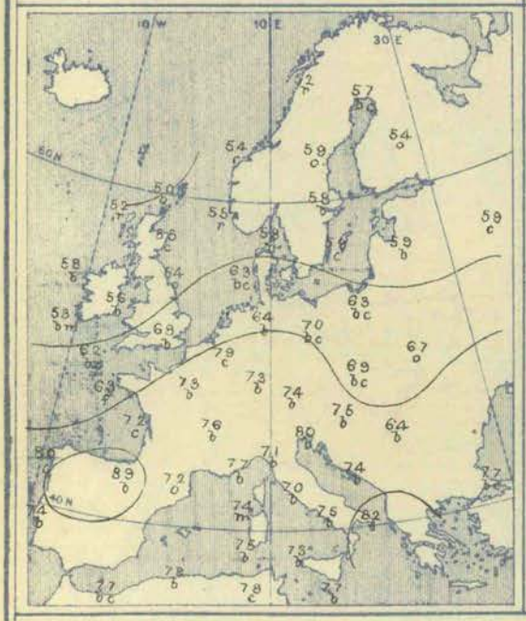


Wind mainly Easterly over the west of France, Southerly in Ireland and Wales, Westerly over Scotland and the eastern shores of the North Sea; very variable over central and southern Europe. A well defined cyclonic circulation over northern Europe, causing strong Westerly winds in the Baltic, South-Westerly over the Gulf of Finland, and moderate Easterly over the northern parts of Scandinavia. Cyclonic circulation of light winds over Ireland and the Irish Channel later, and varying light breezes over England, France, and the Bay of Biscay.

Barometer highest, 30·2 ins. and more to 30·6 ins. over the whole of central and southern Europe, Spain, and the greater part of England. Lowest, 29·5 ins. and less in a depression over the Gulf of Bothnia. Other low pressure systems shown off the west of Norway, the south-west of our Islands, and over the Bay of Biscay. One of the latter advancing over the south of Ireland later, and pressure changing very fitfully over western Europe and the United Kingdom generally. Depression over northern Europe moving eastwards.

Wednesday, 17th August.

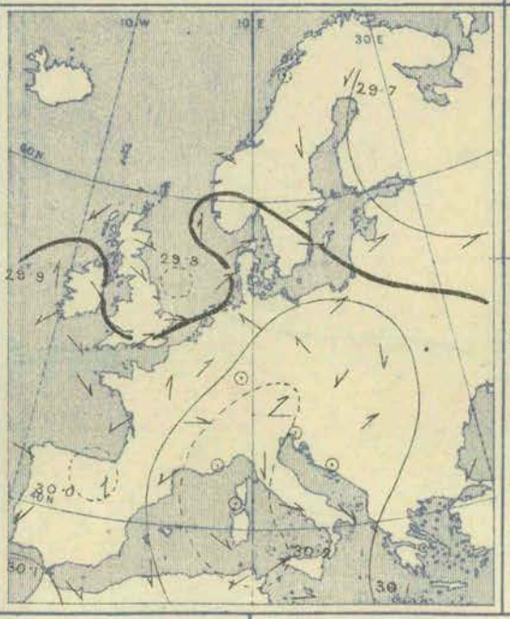
Temperature and Weather. 8 a.m.

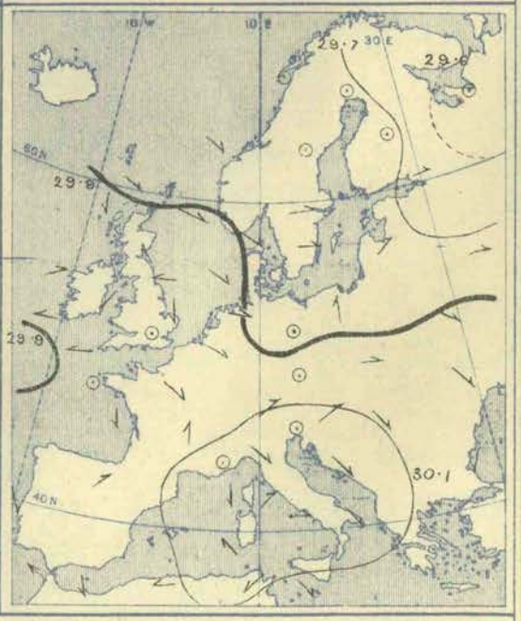


Weather in morning still fine and bright over all but the northern parts of the Continent and our Islands, cloudy or overcast over Scandinavia, the North Sea, and many parts of north Britain, as well as in northern Russia, with rain in places. Some rain later (in small quantity) over many parts of the United Kingdom, the North Sea, and Russia, heavy falls at Bodö and Archangel.

Temperature ranging between 70° and 82° at the Mediterranean stations, and exceeding 70° in many parts of France, western and southern Germany; exceeding 60° over the southern parts of our Islands, the Netherlands, and north Germany. Lowest, 50° at Sumburgh Head, 51° at Ulcaborg and Parsonstown, 52° at Bodö and Stornoway. Rising later to between 90° and 104° in Algeria, Spain, the south-west and south of France, and Italy, to between 90° and 97° over north Germany, and to between 80° and 83° over the south-east of England; not touching 60° at Stornoway, Sumburgh Head, or in the north-west of Norway.

Barometer and Wind. 8 a.m. and 6 p.m.





Wind extremely variable in direction and light in force; mainly Northerly to North-Westerly over the United Kingdom, South-Westerly to South-Easterly on the eastern side of the North Sea. Veering to the Eastward at our western and northern stations later, but remaining light in force, while Westerly and South-Westerly winds continued in the north of Spain.

Barometer highest, 30·2 ins. and more over south Germany, the south of France, north of Italy, with Corsica and Sardinia, and exceeding 30·0 ins. over all the south-western, southern, and south-eastern countries of Europe. Lowest, 29·7 ins. and less over the northern half of Russia, 29·8 ins. and less to the northward of the Shetlands, and also in a shallow secondary lying over the North Sea. Rising at our northern stations later, but falling in the south-west, as a new series of shallow disturbances came over our area from the Atlantic.

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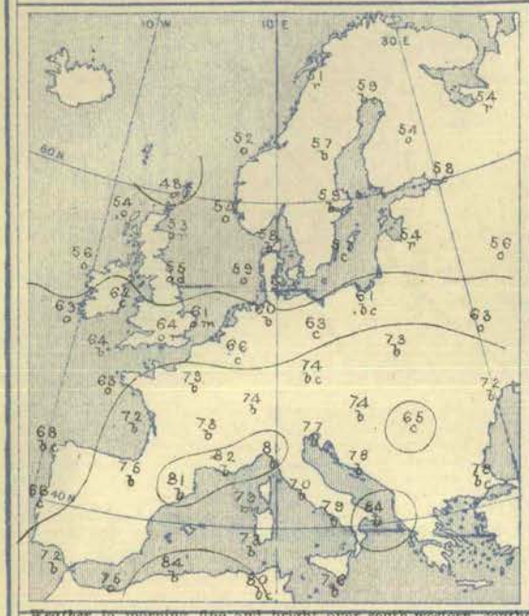
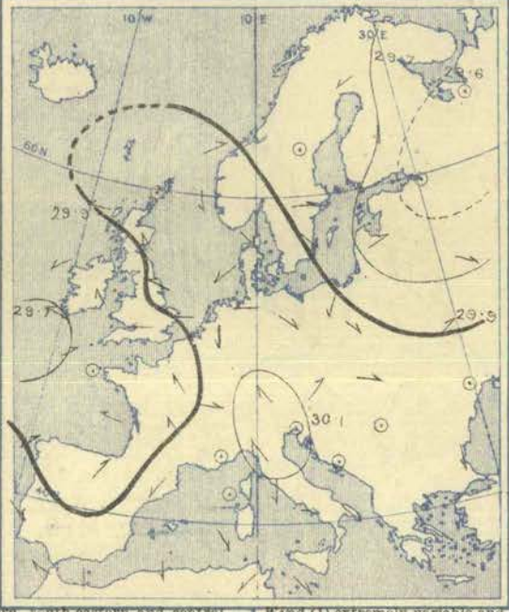
III.—SUMMARY OF WEATHER OVER EUROPE.

Thursday, 18th August.

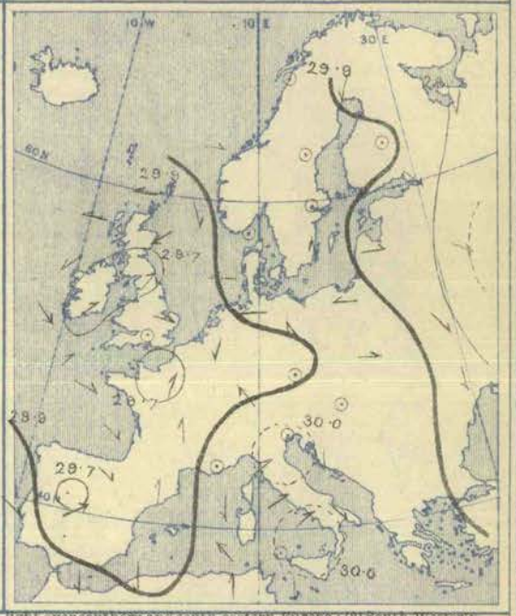
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fine and bright over south-western, southern, south-eastern and central Europe, as well as in Denmark and Sweden; cloudy or overcast elsewhere, with rain over northern Europe, and also at many of the British and Irish stations. Thunderstorms in the south-east of England and the north-east of France; fog or mist in several places. Heavy thunderstorms and rains later in the last named regions, and over north Germany, the rainfall exceeding an inch in many places; thunderstorms over the Riviera, the north of Italy also, but without much rain, and local rain showers in the Baltic Provinces.

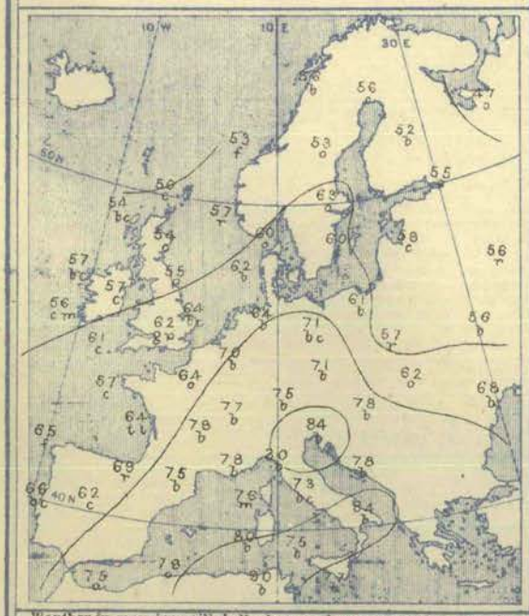
Temperature falling over the United Kingdom. Morning readings ranging from 75° to 85° over the Mediterranean, south-eastern and central Europe, and exceeding 60° over the northern parts of France and Germany. Lowest, 48° at Sumburgh Head, 51° at Bodö, 52° at Christiansund and Wick, and 53° to 55° over Scotland and the northern half of Ireland generally; 54° to 55° over Finland and northern Russia. Rising later to between 70° and 78° over the eastern and south-eastern counties of England, and to between 90° and 98° over the greater part of France, Belgium, western Germany, and Italy; falling to reach 60°, however, over Scotland and the north of Ireland.

Wind (1) extremely variable and light over southern and south-eastern Europe; (2) South-Westerly in the north of Spain, and South-Easterly to Easterly over the British Islands; (3) North-Easterly over Finland, Northerly and North-Westerly over the Baltic, Westerly over central Russia. Backing to North-Eastward in Ireland and Scotland later and blowing hard at Aberdeen; light and extremely variable elsewhere.

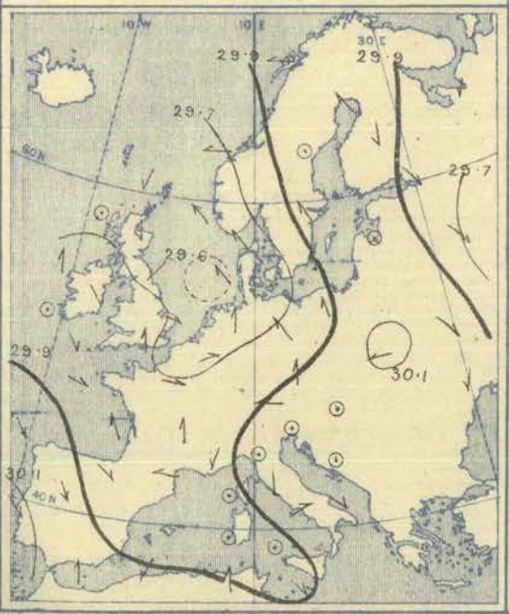
Barometer highest, 30·1 ins. and more to 30·0 ins. over south-eastern and central Europe, with the Mediterranean, and exceeding 30·0 ins. in a ridge extending north-westwards from central Europe across the north-west of Germany and Denmark to the North Sea. Lowest, (1) 29·6 ins. and less over northern Russia, (2) 29·7 ins. and less to 29·8 ins. in a complex depression covering Ireland and the western parts of England and France. Latter disturbance moving north-eastward during day, and undergoing considerable modification.

Friday, 19th August.

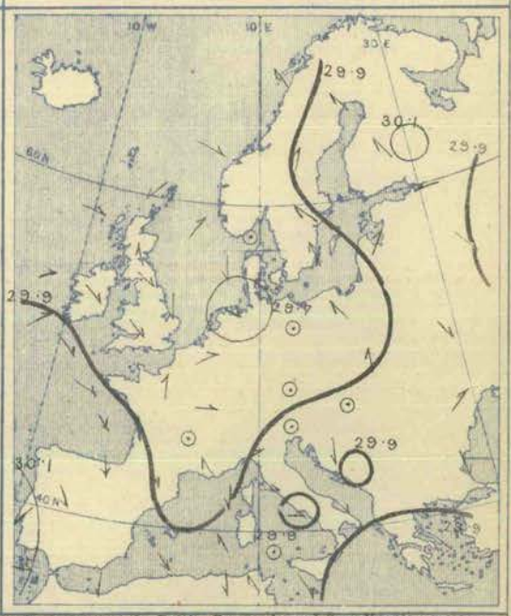
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning still dull, close, and very unsettled over the north-eastern and eastern parts of Great Britain, the North Sea, and the major part of France; fine over south-eastern and southern Europe, with the Mediterranean, as well as over all the western parts of the British Islands, changeable in Norway. Large quantities of rain and local thunderstorms again occuring in the extreme east and south-east of England, the north-east and the west of France (1·0 ins. to 2·2 ins. in places), and some showers over Scandinavia, Scotland, Devonshire, and the south of France.

Temperature fallen in several parts of western Europe. Morning readings exceeding 80° at many Mediterranean stations, and 70° at the others, as well as over the north of Italy and south Germany. Below 60° over the greater part of the United Kingdom, Scandinavia, and Russia, and lowest of all, 47° at Archangel, 50° at Sumburgh Head, 52° at Wick, and 55° at Malin Head, North Shields, and Leith. Rising to between 70° and 73° over our Midland Counties during the day, to 90° and more over Germany, and also over some of the southern parts of France, Germany, Austria, and Italy, and exceeding 100° Fahr. over central Algeria.

Wind Easterly over Poland, South-Easterly over the Baltic, Denmark, and Scandinavia; mainly Northerly or North-Westerly over the British Islands, the Bay of Biscay, and Spain, Easterly in the south of France; very variable elsewhere. Shifting to the South-Westward in many parts of Ireland later, but continuing North-Westerly and Northerly in the east; becoming Southerly over Austria, and South-Easterly over eastern Prussia and the Baltic Provinces.

Barometer highest, (1) 30·1 ins. and more to 29·9 ins. over the greater part of Spain and Algeria; (2) 30·1 ins. and more to 29·9 ins. over south-eastern, central, and northern Europe. Lowest, 29·7 ins. and less in a complex depression covering Scotland, the west of Norway, the whole of the North Sea and the Netherlands, and rather below 29·6 ins. near Heligoland; 29·8 ins. and less over France, and below 29·8 ins. over the western half of the Mediterranean. Rising over the British Islands and western Europe all day, giving way over Germany, as the last-named depression moved south-eastwards.

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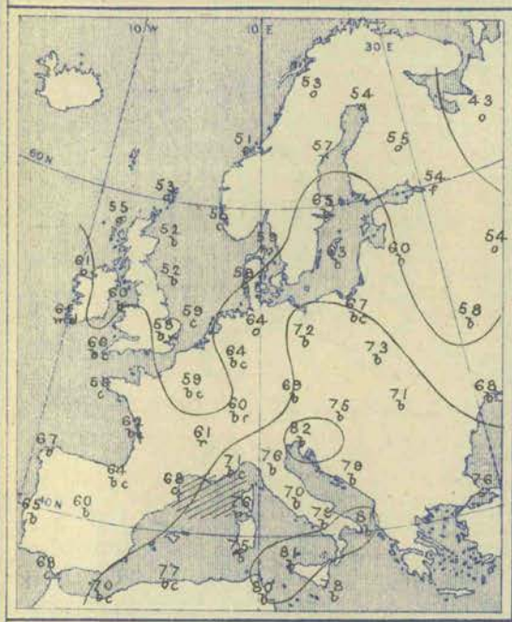
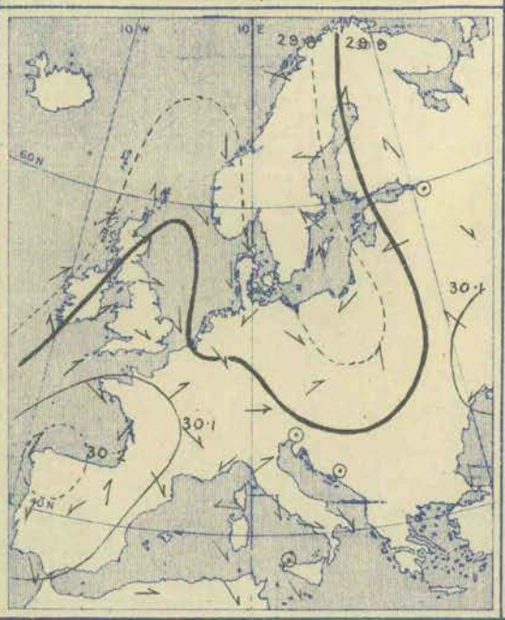
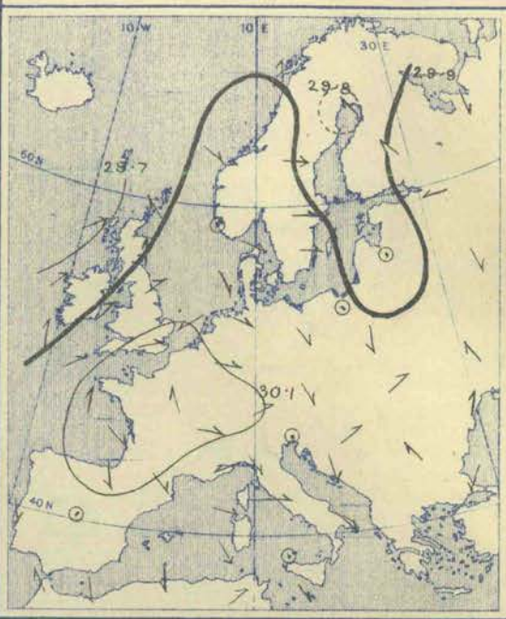
III.—SUMMARY OF WEATHER OVER EUROPE.

Saturday, 20th August.

Temperature and Weather.	Barometer and Wind.	
8 a.m.	8 a.m.	6 p.m.







Weather in morning fine and bright over all but the northern countries of Europe and the extreme west and north-west of our Islands, in which regions sky was overcast, and rain falling in some places. Heavy rain over north of Scandinavia later, and smaller quantities in Finland, Scotland, and Ireland; thunderstorms over the southern parts of France; fine and bright weather elsewhere.

Temperature much lower over France and rather lower over England than of late. Highest, 79° to 82° over the Adriatic and Sicily, and above 70° over the Mediterranean, south-eastern Europe, and Austria-Hungary; below 60° over Russia, northern Europe, the greater parts of England and France. Lowest, 43° at Archangel, 52° at Uleaborg, Aberdeen, and Shields, 59° even at Paris. Rising later to between 70° and 74° in many parts of England, to 80° and more over France, to 90° and more over east Germany, Austria, Italy, and Spain, as well as over Algeria.

Wind light to moderate from South-East over Poland, the Baltic, Finland, and Sweden; light Northerly to North-Westerly over Norway, the North Sea, the Netherlands, and east of England; very variable over Germany and France, light Southerly over the northern and western parts of our Islands, and over the north-west of Spain. South-Westerly breeze appearing over south-west of England later, and backing Southwards, but North-Westerly breeze spreading over Germany.

Barometer highest, (1) 30·2 ins. and more to 30·0 ins. over Spain, the Bay of Biscay, France, and the greater part of England; (2) 30·1 ins. and more to 29·9 ins. over Russia, Finland, and Poland. Lowest, 29·8 ins. and less over Sweden and north Germany, and also in the extreme west of Ireland, as a new (shallow) depression was approaching our north-western coasts. Falling slightly on our north-western coasts later, and more in Lapland, where a new depression was appearing.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During the greater part of this week pressure was highest over the southern half of Europe, but never very high, while it was lowest in the extreme north and north-west, and the depressions which appeared brought considerable quantities of rain to Ireland and the northern parts of Europe. Temperature was high—very high on the Continent, where maxima were recorded varying from 90° to 107° in the shade, while readings of 80° to 83° were registered on one day over the south-eastern counties of England.

During the 18th and 19th, however, a very extensive "hollow" passed over, having several local minima in it, and with this rainy, thundery weather spread over almost all countries, followed by a decided but temporary fall of temperature. At the close of the week this complex system was passing away to eastern and central Europe, and the southern high pressure was again spreading northward over France and the British Islands, with fine weather, high day-temperatures, and cool nights.

Earthquake.—Three distinct shocks of earthquake are reported to have occurred over the south-western parts of England and Wales between midnight of the 17th and 2 a.m. on the 18th inst.

BRIGHT SUNSHINE Values for the Week in addition to those found on page 194.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	40·1	?	39	?	EASTBOURNE	43·6	?	44	?
OSWALDKIRK (Yorkshire)	27·9	?	27	?	TENBY	38·5 *	?	39 *	?
WORKSOP	28·0	− 5·2	28	− 5	NEWQUAY				
THURCASTON (Leicestershire)	39·7	+ 4·5	39	+ 4	TORQUAY	58·0 *	?	59 *	?
MARGATE	44·2	?	44	?	ARLEY COTTAGE (County Cavan)	29·8	?	29	?
WESTBOURNE (Sussex)	43·3 *	?	43 *	?	GUERNSEY	54·0 *	?	55 *	?
BRIGHTON	45·4	?	45	?					

* The values at Westbourne, Tenby, Torquay and Guernsey are obtained by Jordan's Photographic Recorder.

Doctors' Commons.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.
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VOL. IX. No. 34.] *Third Series.* WEEK ENDING SATURDAY, 27TH AUGUST, 1892. [*Price 6d.* [*Annual subscription, post paid*, £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years' observations (1871-90). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the ten years 1881-90. RAINFALL.—*The Mean amounts* are those for the corresponding periods in the twenty-five years 1866-90, but the *Mean numbers of Rainy Days* are those for the ten years 1881-90, only. BRIGHT SUNSHINE.—*The Mean values* employed are those for the corresponding periods in the ten years 1881-90.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 200.)	Observed during the Week. Highest.	Observed during the Week. Lowest.	Averages of Daily Maxima.	Averages of Daily Minima.	Averages of Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	For the Week. Difference from Mean.	For the Week. Below 42°	For the Week. Difference from Mean.	From January 3rd, 1892. Above 42°	From January 3rd, 1892. Difference from Mean.	From January 3rd, 1892. Below 42°	From January 3rd, 1892. Difference from Mean.
		°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	74	43	61·8	51·8	56·5	3 above.	102	+23	0	0	1304	+ 8	754	+212
	1. SCOTLAND, EAST -	74	44	65·6	51·3	58·0	3 above.	112	+13	0	0	1544	−145	810	+241
	2. ENGLAND, N.E. - -	78	49	67·8	54·1	60·6	3 above.	130	+26	0	0	1688	− 94	684	+186
	3. ENGLAND, EAST -	82	45	70·1	52·4	60·7	1 above.	131	+14	0	0	1995	− 83	771	+210
	4. MIDLAND COUNTIES	82	44	70·9	51·5	60·6	2 above.	130	+19	0	0	2009	− 53	802	+250
	5. ENGLAND, SOUTH -	80	43	69·9	54·1	61·5	1 above.	137	+11	0	0	2171	− 67	554	+138
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	74	49	65·0	54·0	59·2	3 above.	120	+24	0	0	1658	− 66	610	+193
	7. ENGLAND, N.W. -	76	46	66·9	55·7	61·0	3 above.	133	+26	0	0	1814	− 49	579	+165
	8. ENGLAND, S.W. -	78	48	67·3	54·9	60·7	2 above.	131	+16	0	0	2065	− 5	433	+117
	9. IRELAND, NORTH -	71	43	63·3	53·6	58·2	2 above.	113	+12	0	0	1793	− 56	484	+122
	10. IRELAND, SOUTH -	73	46	65·1	54·8	59·7	2 above.	124	+16	0	0	2089	− 2	410	+132
	— CHANNEL ISLANDS -	77	52	68·6	57·3	62·6	1 above.	144	+14	0	0	2354	+ 74	164	+ 42

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 200.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Rainfall. From January 3rd, 1892. Number of Rainy Days.	Difference from Mean.	Total Fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Bright Sunshine. From January 3rd, 1892. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of In.	10ths of In.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	6	12	3 more.	159	+ 4	28·0	− 0·9	19	− 6	18	− 7	919	+ 29	28	0
	1. SCOTLAND, EAST -	3	3	5 less.	126	− 1	16·2	− 3·2	33	− 6	33	− 9	1053	+ 16	33	+ 1
	2. ENGLAND, N.E. - -	3	3	3 less.	123	+ 7	15·1	− 1·0	36	+ 6	36	+ 4	997*	+ 47	31	+ 1
	3. ENGLAND, EAST -	3	10	5 more.	114	0	15·4	− 0·5	49	+11	50	+ 9	1199	+ 56	38	+ 2
	4. MIDLAND COUNTIES-	3	9	3 more.	106	− 6	14·0*	− 3·6	44	+ 8	45	+ 8	1127	+105	36	+ 4
	5. ENGLAND, SOUTH -	4	14	9 more.	94	−15	12·5	− 4·1	44	+ 1	45	+ 1	1314	+209	42	+ 7
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	4	7	2 less.	123	−11	25·8	− 4·1	32	− 1	33	0	1120	+ 92	35	+ 2
	7. ENGLAND, N.W. - -	3	11	3 more.	122	0	20·2	− 0·2	27	− 7	28	− 6	1120	+101	35	+ 3
	8. ENGLAND, S.W. - -	4	11	4 more.	110	−15	15·6	− 8·3	38	− 6	39	− 5	1328*	+122	42	+ 3
	9. IRELAND, NORTH -	6	16	8 more.	134	−10	22·6	+ 0·2	23	− 4	24	− 3	999	+ 57	31	+ 1
	10. IRELAND, SOUTH -	5	15	7 more.	120	−12	23·7	− 0·4	20	−15	21	−14	1086	− 1	34	− 1
	— CHANNEL ISLANDS -	5	13	7 more.	111	−21	15·6	− 3·2	46	− 9	48	− 7	1556	+146	50	+ 5

Bright Sunshine.—For several of the stations there are no "mean" values available, and the "difference from the mean" in some of the districts is consequently that of only a few of the stations.

General Remarks.

Weather during this period varied considerably. Over eastern, southern, and central England there were many intervals of bright sunshine, but in the western and northern parts of the Kingdom the conditions were generally very cloudy or dull. Rain occurred from time to time in all places, occasionally accompanied by thunder and lightning. The rainfall experienced in Ireland during the earlier days of the week, and over the south of England at its close, was very heavy.

Temperature exceeded the mean in all districts, the excess in most cases being 2° or 3°. The highest of the maxima were recorded during the early part of the period, when they ranged from 82° in England E. and the Midland Counties, and 80° in England S., to 74° in Scotland, 73° in Ireland S., and 71° in Ireland N. The lowest of the minima were registered at most stations on the 22nd, and ranged from 43° in Scotland N., England S., and Ireland N., to 52° in the Channel Islands.

Rainfall was rather less than the mean in Scotland E. and W., and in England N.E., but more in other districts, the excess over Ireland and the south and east of England being very considerable.

Bright Sunshine exceeded the mean over the greater part of England, but showed a deficit elsewhere. The percentage of the possible duration ranged from 50 in England E., 48 in the Channel Islands, and 45 in the Midland Counties and England S., to only 28 in England N.W., 24 in Ireland N., 21 in Ireland S., and to 18 in Scotland N.

Barometer and Wind.—Soon after the commencement of the week some complex but shallow disturbances passed across our Islands from the westward, causing the wind to be light and variable. By the 26th these systems had disappeared, and the wind was moderate from the Westward, but on the following day a new and much deeper disturbance was passing eastwards over Ireland and England, causing fresh or strong Westerly and South-Westerly winds in the south and south-east, with large quantities of rain.

* This value has been altered slightly owing to the receipt of further information.

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II.—DATA from which the SUMMARY on page 199 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°				Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	63	47	57·3	50·7	53·8	+ 1·3	83	0	6	0·58	−0·16	*	*	*	*
	Stornoway	64	45	60·0	50·9	55·2	+ 2·0	92	0	6	0·71	−0·14	20·7	− 6·1	20	− 7
	Wick	72	45	62·0	51·7	56·5	+ 2·8	102	0	5	0·38	−0·21	*	*	*	*
	Lairg ℒ	74	43	64·2	50·8	57·1	+ 3·3	106	0	6	0·54	−0·08	*	*	*	*
	Glencarron ℒ	71	41	61·6	51·1	56·0	+ 2·7	98	0	7	3·34	+1·84	*	*	*	*
	Fort Augustus ℒ	74	47	65·6	53·4	59·1	+ 4·0	120	0	? 5	? 0·90	? +0·19	16·8	?	17	?
	Fort William ℒ	69	50	62·0	54·0	57·8	+ 2·3	111	0	7	2·20	+0·88	17·9	?	18	?
1. SCOTLAND, E.	Nairn	73	45	66·1	51·0	58·1	+ 2·4	113	0	4	0·47	−0·13	*	*	*	*
	Aberdeen	67	45	63·1	50·7	56·5	+ 1·0	102	0	2	0·07	−0·60	25·6	− 7·6	25	− 9
	Braemar ℒ	71	45	63·6	49·9	56·3	+ 3·8	100	0	5	0·28	−0·57	28·2†	?†	28†	?†
	Ochtertyre ℒ	74	44	67·9	50·6	58·7	+ 3·2	117	0	4	0·38	−0·42	*	*	*	*
	Leith	74	50	67·3	53·6	60·0	+ 2·6	126	0	2	0·24	−0·36	*	*	*	*
	Marchmont ℒ	74	45	65·6	52·1	58·5	+ 3·5	116	0	3	0·21	−0·59	42·0	?	42	?
2. ENGLAND, N.E.	Alnwick Castle	71	49	66·0	53·0	59·1	+ 3·5	120	0	1	0·04	−0·66	*	*	*	*
	Durham	76	50	70·4	53·8	61·6	+ 4·6	137	0	3	0·36	−0·26	34·9	+ 2·8	35	+ 3
	Shields	74	49	67·1	52·7	59·5	+ 2·6	123	0	3	0·43	−0·15	*	*	*	*
	Scarborough ℳ	76	52	67·5	55·2	61·0	+ 3·6	133	0	3	0·51	−0·06	*	*	*	*
	York	78	52	70·7	54·9	62·3	+ 4·2	142	0	4	0·17	−0·42	37·7	+ 6·2	38	+ 7
	Spurn Head	73	53	65·3	55·0	59·8	+ 0·9	125	0	4	0·29	−0·13	*	*	*	*
3. ENGLAND, E.	Hillington ℳ	74	49	67·3	52·8	59·6	+ 0·7	123	0	3	0·90	+0·32	48·6	+11·9	50	+12
	Yarmouth	68	50	66·4	55·3	60·5	+ 1·0	130	0	4	1·41	+0·95	*	*	*	*
	Geldeston	77	45	71·2	51·0	60·5	+ 1·2	130	0	4	0·84	+0·36	50·0	+ 8·6	52	+ 9
	Cambridge	82	48	74·6	52·1	62·7	+ 2·7	145	0	2	0·62	+0·13	51·5	+13·7	53	+13
	Rothamsted	78	46	71·0	50·7	60·4	+ 1·7	129	0	2	1·43	+0·86	44·8	?	46	?
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	81	47	74·4	51·7	62·4	+ 3·8	143	0	2	0·02	−0·49	*	*	*	*
	Loughborough	82	47	74·0	52·9	62·8	+ 3·3	146	0	3	0·24	−0·35	*	*	*	*
	Stamford (Ketton Hall)	81	44	73·4	49·6	60·8	+ 1·4	132	0	2	0·60	+0·03	*	*	*	*
	Cheadle ℳ	73	50	67·2	50·7	58·5	+ 2·1	116	0	3	0·43	−0·39	*	*	*	*
	Churchstoke ℳ	76	47	68·8	51·8	59·8	+ 3·0	125	0	3	0·75	+0·14	38·2	+ 2·6	39	+ 2
	Hereford ℳ	77	51	70·1	52·5	60·8	+ 1·6	132	0	3	1·74	+1·18	*	*	*	*
	Cirencester	73	44	68·0	50·3	58·6	+ 1·0	116	0	3	1·47	+0·79	44·0	+ 4·7	45	+ 6
	Oxford	77	47	70·9	52·7	61·3	+ 1·7	135	0	3	1·58	+1·09	47·1	+ 7·6	49	+ 9
5. ENGLAND, S.	London	80	48	73·4	53·6	62·9	+ 1·7	146	0	4	1·01	+0·51	35·4†	+ 0·6†	36†	0†
	North Foreland	68	54	67·1	57·4	62·0	+ 3·0	140	0	4	1·18	?	*	*	*	*
	Strathfield Turgiss ℳ	77	43	71·7	50·8	60·6	+ 0·8	130	0	4	1·98	+1·50	*	*	*	*
	Dungeness	71	49	68·7	54·4	61·1	− 0·1	134	0	3	0·40	−0·08	*	*	*	*
	Hastings (St. Leonards)	76	52	69·5	54·9	61·8	+ 0·5	139	0	4	0·69	+0·14	44·1	+ 0·6	45	0
	Southampton	77	49	72·1	53·5	62·2	+ 1·3	141	0	2	1·63	+1·06	46·7	+ 2·7	48	+ 3
	Hurst Castle	72	50	69·0	56·4	62·3	+ 1·2	142	0	2	1·52	+0·96	*	*	*	*
	Stowell ℳ	74	49	67·7	51·6	59·2	+ 0·8	120	0	5	2·93	?	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	71	49	62·8	52·7	57·5	+ 1·5	109	0	7	2·15	+0·95	*	*	*	*
	Glasgow	71	51	65·5	55·3	60·1	+ 4·5	127	0	4	0·50	−0·35	21·8	− 6·2	22	− 6
	Ardrossan	71	53	64·6	54·6	59·3	+ 1·8	121	0	4	0·15	−0·67	*	*	*	*
	Glenlee ℒ	74	49	66·8	53·7	59·9	+ 4·6	125	0	3	0·33	−0·64	*	*	*	*
	Douglas (Isle of Man)	70	50	65·1	53·7	59·1	+ 2·8	120	0	2	0·45	−0·37	42·8	+ 5·6	43	+ 5
7. ENGLAND, N.W.	Newton Reigny	76	46	67·3	53·3	59·9	+ 5·4	125	0	3	1·76	+1·06	27·7	− 3·5	28	− 3
	Stonyhurst	73	51	66·3	54·8	60·2	+ 2·9	127	0	3	1·83	+0·76	25·0	− 7·8	25	− 8
	Blackpool ℳ	76	51	67·6	56·7	61·8	+ 3·6	139	0	3	1·08	+0·35	21·0	−13·0	21	−13
	Manchester	75	51	67·7	55·2	61·1	+ 3·4	134	0	3	1·25	+0·48	*	*	*	*
	Liverpool Obsy. (Bidston)	73	54	67·0	56·9	61·7	+ 2·8	138	0	3	0·83	+0·18	*	*	*	*
	Llandudno ℳ	73	53	67·3	56·6	61·6	+ 2·1	137	0	4	0·45	−0·18	35·4	+ 0·7	36	+ 2
	Holyhead	71	51	65·4	56·1	60·5	+ 1·9	130	0	4	0·38	−0·28	*	*	*	*
8. ENGLAND, S.W.	Llandovery	78	50	70·7	53·1	61·4	+ 3·0	136	0	4	1·43	+0·39	*	*	*	*
	Pembroke	67	55	63·7	57·0	60·2	+ 1·5	127	0	5	0·31	−0·33	36·7	− 7·1	38	− 7
	Arlington (N. Devon)	72	50	67·1	53·9	60·1	+ 2·7	127	0	4	1·69	+0·59	*	*	*	*
	Cullompton ℳ	74	48	70·4	52·4	60·9	+ 2·5	132	0	4	2·00	+1·36	38·1	− 2·0	39	− 2
	Falmouth	70	54	67·2	56·5	61·5	+ 2·0	137	0	3	0·58	−0·24	37·8	− 7·5	39	− 7
	Plymouth															
	Prawle Point	70	54	64·9	56·3	60·3	+ 0·9	128	0	5	0·85	+0·41	*	*	*	*
9. IRELAND, N.	Malin Head	68	52	61·0	54·4	57·5	+ 0·8	109	0	7	1·41	?	*	*	*	*
	Londonderry												*	*	*	*
	Edenfel (Omagh)	69	44	63·0	53·7	58·1	+ 2·0	113	0	5	1·27	?	*	*	*	*
	Mullaghmore	70	51	62·7	55·4	58·8	+ 1·1	118	0	7	2·33	+1·51	*	*	*	*
	Belmullet	65	53	61·3	55·7	58·3	− 0·3	114	0	6	1·20	?	*	*	*	*
	Markree Castle	71	44	63·4	51·6	57·2	+ 1·2	106	0	7	1·77	+0·95	19·8	− 7·4	20	− 7
	Brookeborough	69	43	64·1	53·5	58·5	+ 2·8	116	0	5	1·44	+0·69	*	*	*	*
	Armagh	71	45	65·5	52·6	58·7	+ 2·1	117	0	5	2·48	+1·82	27·3	+ 0·9	28	+ 1
	Donaghadee	68	52	65·1	54·7	59·6	+ 3·2	123	0	4	0·26	−0·44	*	*	*	*
	Edgeworthstown	67	44	64·0	50·6	56·9	+ 0·5	104	0	4	2·24	+1·49	*	*	*	*
10. IRELAND, S.	Dublin	70	50	66·7	55·8	60·9	+ 2·4	132	0	4	0·14	−0·48	25·6	−10·1	26	−10
	Parsonstown	72	46	64·3	54·1	58·9	+ 1·5	118	0	4	1·56	+0·79	17·3	−14·2	18	−15
	Kilkenny	69	48	66·1	54·9	60·2	+ 2·4	127	0	3	0·14	−0·66	*	*	*	*
	Waterford	71	49	68·4	55·0	61·3	+ 2·5	135	0	4	0·15	−0·72	*	*	*	*
	Roche's Point	65	52	63·7	55·7	59·5	+ 0·6	123	0	4	4·45	+3·56	*	*	*	*
	Valencia	67	53	62·9	55·9	59·2	+ 0·7	120	0	5	1·09	−0·01	17·5	−18·0	18	−18
	Killarney	70	47	64·3	53·0	58·3	+ 0·3	114	0	6	2·67	?	*	*	*	*
	Foynes	73	49	64·2	54·1	58·9	+ 1·2	118	0	7	2·14	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	70	56	67·1	57·6	62·1	+ 1·9	141	0	4	2·25	+1·66	*	*	*	*
	Jersey	77	52	70·0	57·0	63·1	+ 0·9	148	0	5	0·22	−0·28	44·8	− 8·9	47	− 7

Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked ℒ with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

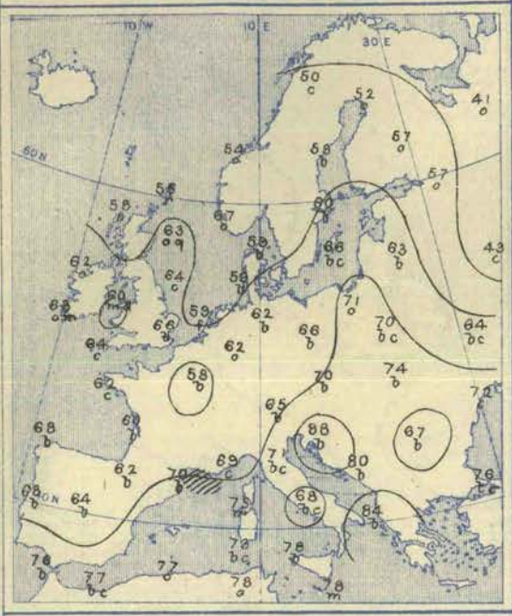
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory and the Meteorological Office, Victoria Street. For additional Reports of Sunshine see last page. NOTE.—It will be observed that Edenfel (Omagh) has been added to the list of stations in "Ireland, N."

III.—SUMMARY OF WEATHER OVER EUROPE.

Sunday, 21st August.

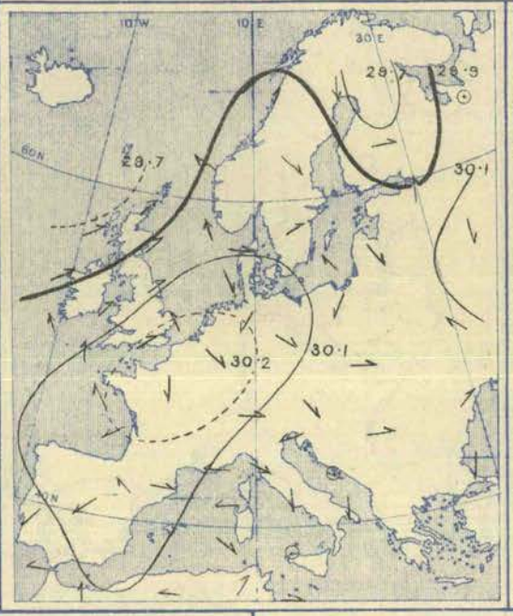
Temperature and Weather.

8 a.m.

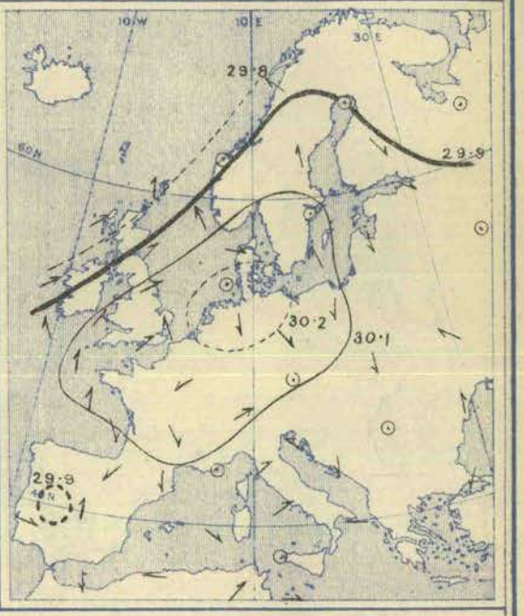


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over all the southern half of Europe, as well over Sweden, the eastern shores of the North Sea, and the south-eastern half of England; dull and unsettled over Lapland, Finland, and northern Russia, dull and rainy in Ireland, Wales, and the north-east of Scotland. Considerable rain in the west of Ireland and at Christiansund later, smaller quantities at the Irish and Welsh stations, and in the west of Germany; thunderstorms in the south of France, but weather fine and bright over France and England.

Temperature rising again over Great Britain, and falling over central Europe. Morning readings, 80° to 88° at the Adriatic stations, 70° and more over the Mediterranean, Austria, and eastern Germany, and exceeding 60° over Great Britain and Ireland. Lowest, 41° at Archangel, 43° at Moscow, 52° at Haparanda, 55° at Sumburgh Head and Kharkov. Rising later to between 70° and 77° over Great Britain and the south of Sweden, and to between 80° and 85° in many parts of Germany and France, to 90° and more in many parts of Austria and Italy, and to about 100° Fahr. over central Algeria.

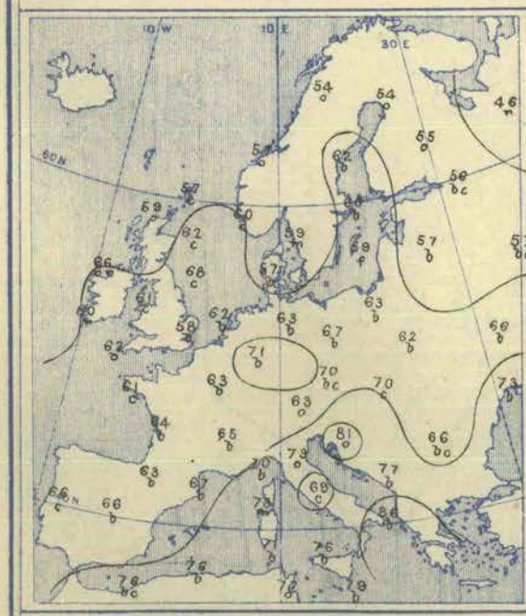
Wind Southerly, light to fresh, over the British Islands as a whole, but strong at Belmullet South-Easterly in Norway, North-Westerly over Finland, very variable over central Europe, Easerly over the Bay of Biscay, North-Easterly over Spain, Northerly breezes prevailing over Italy. No great change in our Islands later, but falling calm over Finland.

Barometer highest, 30·2 ins. and more to 30·0 ins. in an anticyclone covering the whole of western Europe, and the greater part of the Baltic and Sweden. Lowest, 29·7 ins. and less in a depression over Lapland and the north of Finland, and in another advancing northwards outside our extreme north-west coasts. Latter disturbance passing away to the northward later, the large anticyclone moving north-eastwards, and the barometer falling over France and Spain.

Monday, 22nd August.

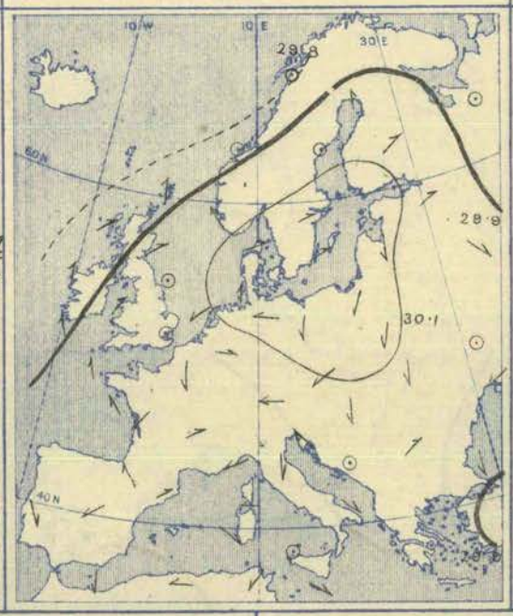
Temperature and Weather.

8 a.m.

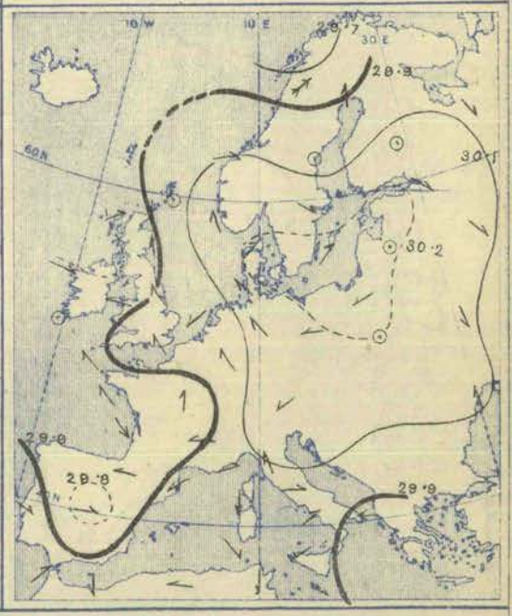


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over Spain, France, England, central and eastern Europe, as well as in many parts of Sweden, cloudy or overcast in the extreme west and north, with rain over Ireland generally, and at Archangel; cloudy and rainy over the northern parts of Italy and the Adriatic also. Large quantities of rain falling in Ireland during the day, and a steady fall setting in over the north-west of Norway and Lapland. Lightning very prevalent in the south-west of our Islands and the south of France; thunder occurring at Cambridge.

Temperature changing somewhat fitfully. Morning readings ranging between 70° and 86° over southern and south-eastern Europe, and the Mediterranean, exceeding 70° over Austria-Hungary, and exceeding 60° in most other places; but as low as 46° at Archangel, 50° at Uleaborg, 54° at Bodö, 57° at Sumburgh Head, and also at Moscow. Rising to between 70° and 79° over the greater part of our Islands, Denmark, and Sweden later, to between 80° and 85° over Germany and France, to 90° at Biarritz and Sanguinaire, and to 100° and more over central Algeria.

Wind light generally; Southerly over Ireland and Scotland, South-Easterly in the west of Norway, South-Westerly over the south of Sweden and in Finland, Northerly over Germany, Easterly over the south and west of France; very variable elsewhere, calm over many parts of England and the south of Russia. Becoming South-Easterly to Easterly over Great Britain later, but continuing very slight in force; shifting to the Westward over Spain.

Barometer highest, 30·2 ins. and more to 30·0 ins. in an anticyclone of irregular form covering the greater part of Europe, and having its central area over Denmark, the south of Sweden, and a part of north Germany. Lowest, 29·9 ins. and less over the western parts of Ireland, Scotland, Norway, Lapland, and the north-east of Russia; below 30·0 ins. over the whole of south-eastern Europe and over the Bay of Biscay. Falling in most places during the day; the anticyclone moving east-south-eastward, and shallow local depressions appearing over various parts of western Europe and the British Islands.

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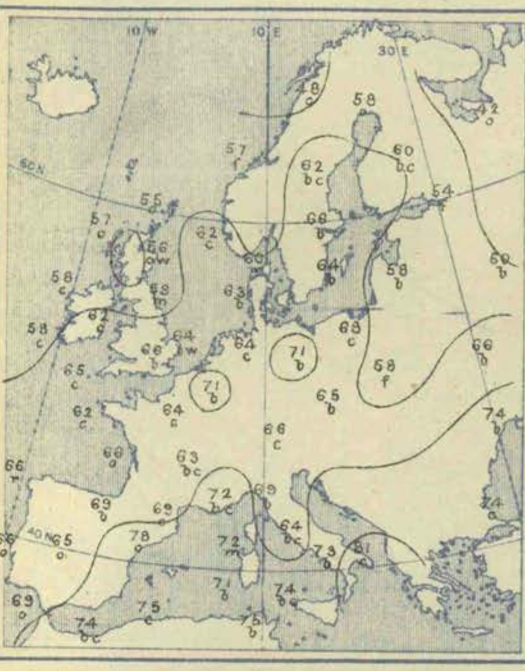
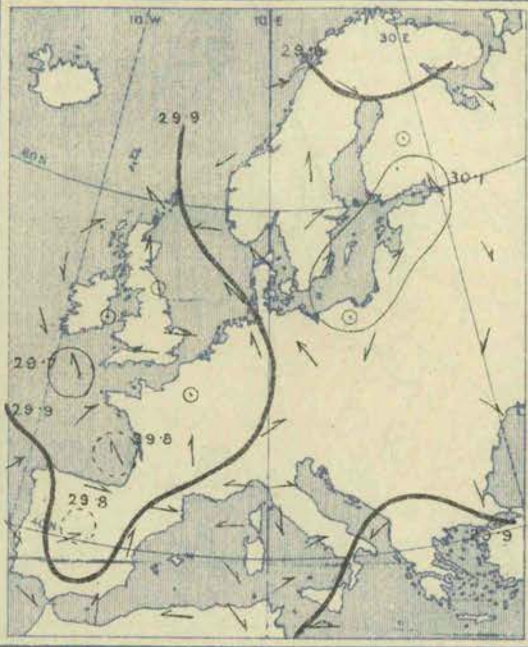
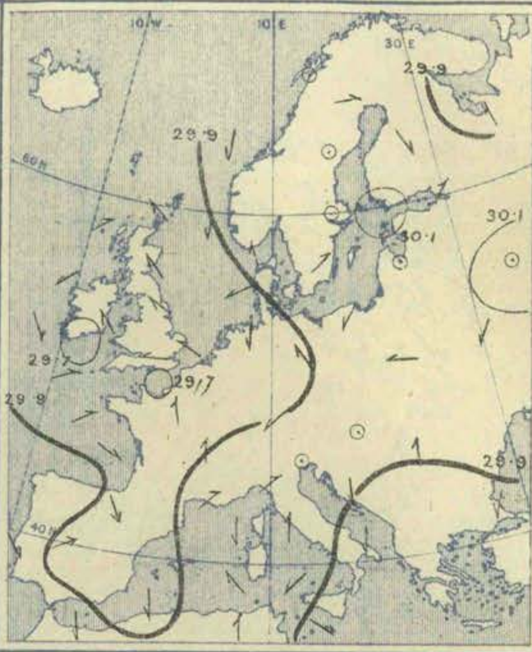
Tuesday, 23rd August.

Temperature and Weather.	Barometer and Wind.	
8 a.m.	8 a.m.	6 p.m.







Weather in morning fine and bright over the greater part of the Continent, dull in the north; fine over Scotland and the east of England also, hazy or foggy in many places, and appearance of sky unsettled; dull in Ireland and the west of Scotland, with heavy rains at some of the Irish stations. Thunderstorms later over Wales and all the southern half of England, the Channel, and many parts of France; extremely heavy rains in several parts of Ireland, and considerable falls in several parts of France, the north of Spain, and also in the north-west of Norway.

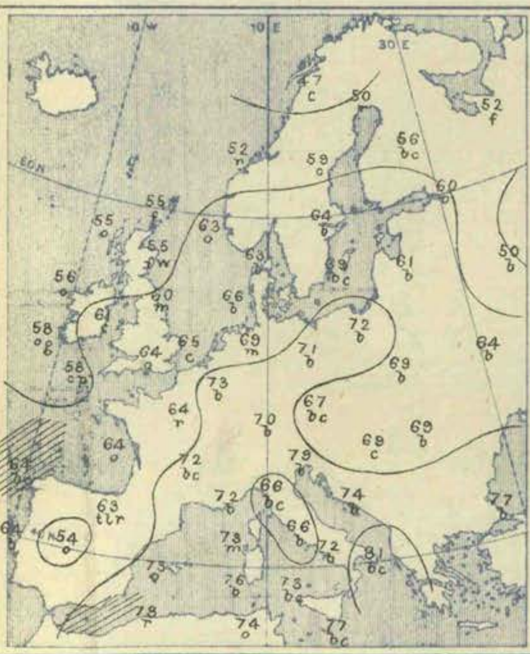
Temperature changing irregularly. Morning readings exceeding 80° at Brindisi only, exceeding 70° over southern and south-eastern Europe, as well as at Brussels and Berlin, and exceeding 60° in most other places. Lowest, 42° at Archangel, 48° at Bodö, 50° at Moscow, 51° at Christiansund, 55° at Sumburgh Head. Rising later to between 80° and 82° in many parts of England, to between 84° and 88° in Germany, Italy, and the south of France, to 89° at Paris and Brussels, to 90° at Cape Gris Nez, and to between 100° and 108° over Algeria.

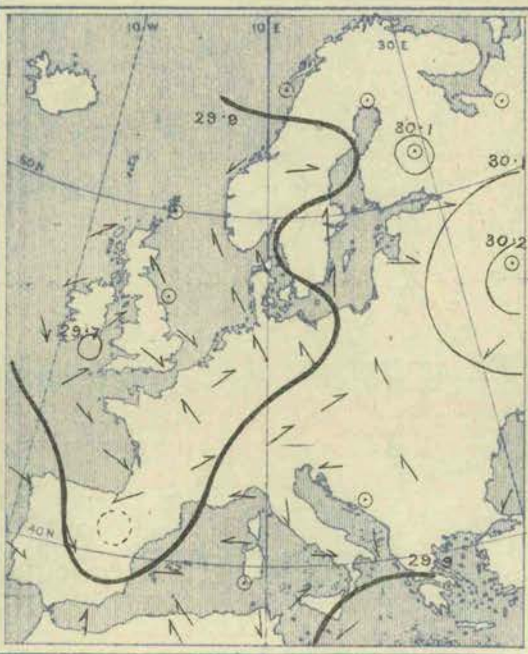
Wind light and variable; chiefly Northerly in the west and south of Ireland, South-Easterly to Easterly on the eastern shores of the North Sea and in the north-east of Scotland, Southerly and South-Westerly over the Baltic. The Northerly wind in Ireland freshening a little later, and North-Westerly breezes setting in over south-western Europe; no general change elsewhere.

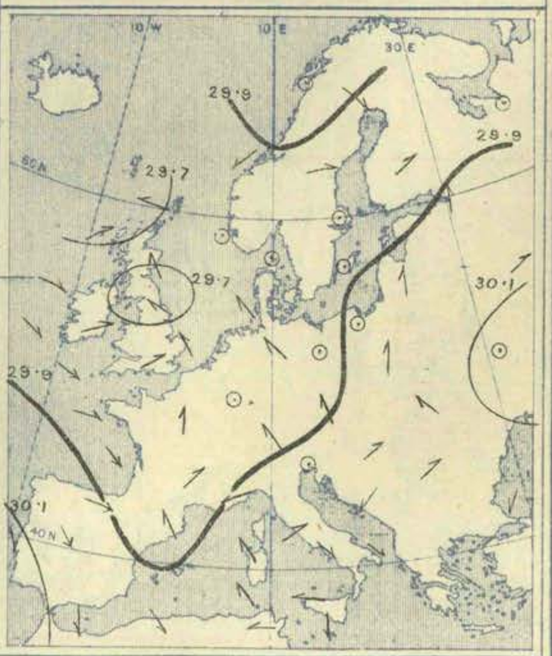
Barometer highest, 30·1 ins. to 29·9 ins. over the whole of Russia, the Baltic, Scandinavia, central and southern Europe; 30·0 ins. and more to 29·9 ins. over Portugal and the southern parts of of Spain. Lowest, 29·7 ins. and less in a depression near Scilly, 29·8 ins. and less in two others —one near Rochefort, the other near Madrid, and below 29·9 ins. over all the United Kingdom, France, and the greater part of Spain. Low pressure system moving north-eastwards later, and undergoing considerable modification in form.

Wednesday, 24th August.

Temperature and Weather.	Barometer and Wind.	
8 a.m.	8 a.m.	6 p.m.







Weather in morning still fine and bright over Russia, central and south-eastern Europe, as well as in Portugal; cloudy and very unsettled as a whole elsewhere, with wet fogs in the north of Russia and the north-eastern parts of Scotland and Ireland, rain in very many places, thunderstorms at the North Foreland and Biarritz. Rain during day in many parts of England and the greater part of France, heavy on our extreme east coast and over France, very heavy in the south-west of France (2·1 ins. at Perpignan, 1·4 ins. at Marseilles).

Temperature beginning to fall over western Europe. Morning readings, 70° to 81° over the Mediterranean, 77° at Constantinople, 69° to 73° over the Netherlands and North Germany; below 60° at most of the more northern stations, and over central Russia. Lowest of all, 47° Bodö, 49° at Haparanda, 50° at Moscow, 52° at Archangel, and 54° at Wick. Rising later to between 70° and 76° over the inland parts of England and the north of France, to 80° at Brussels, to 86° at Belfort, Munich, and Wiesbaden, to 90° at Cracow and Groningen, to 91° at Berlin, 92° at Leghorn, and to 100° and more over Algeria.

Wind light and very variable, but mainly Northerly in Ireland, North-Westerly to Westerly over north-western Europe, South-Westerly to South-Easterly over Germany, Southerly over Scandinavia, calm in Lapland. The North-Westerly wind in the south-west beginning to spread north-eastwards later, the South-Easterly wind on the Continent in the mean time dying out slowly.

Barometer highest, (1) 30·0 ins. and more to 29·9 ins. over the south-western half of the Peninsula; (2) 30·2 ins. to 30·0 ins. over Russia, Poland, and Austria-Hungary, and exceeding 29·9 ins. over the Mediterranean and all parts of south-eastern Europe. Lowest, 29·8 ins. and less to 29·9 ins. in a large shallow area covering the British Islands, France, and the north-east of Spain, and having in it several local minima. Rising slightly in Ireland and the west of Spain later, but local disturbances continuing to appear over France and England.

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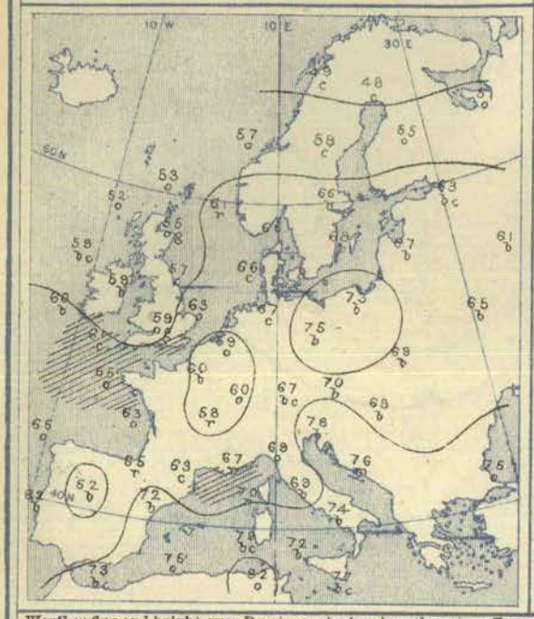
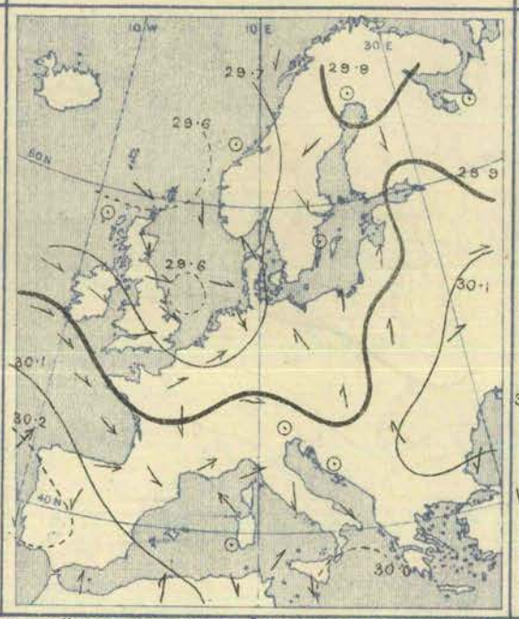
III.—SUMMARY OF WEATHER OVER EUROPE.

Thursday, 25th August.

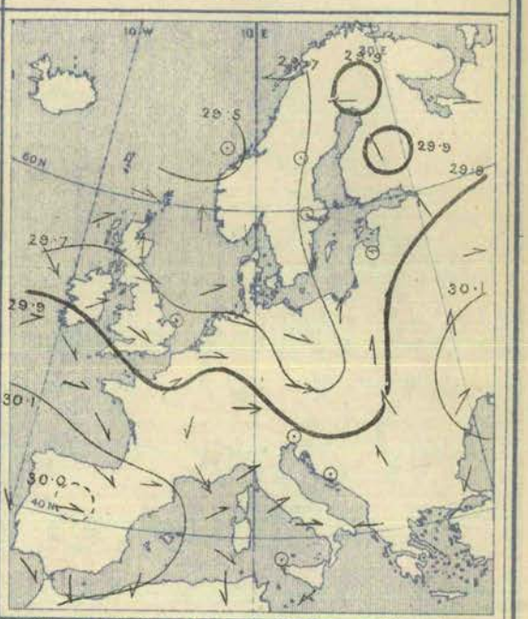
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather fine and bright over Russia, central and south-eastern Europe, as well as over the southern parts of Spain and the western parts of the United Kingdom; dull and unsettled over Norway, Scotland, the North Sea, the eastern half of England, and many parts of France; rainy in several places, thunderstorm at Skudesnaes. Considerable rain at several of the Continental stations later, and smaller quantities in the extreme northern, western, and southern parts of our Islands; a thunderstorm at the North Foreland. Aurora seen in the north-east of Scotland at night.

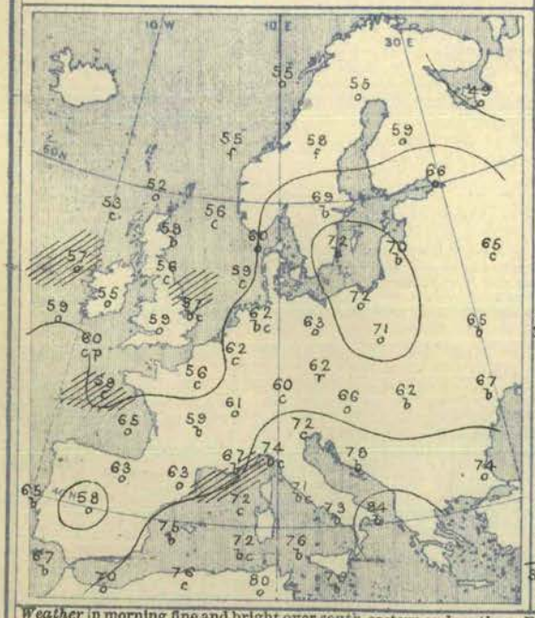
Temperature highest, 70° and more at the Mediterranean and Adriatic stations, as well as over the greater part of Austria and Germany; above 60° over Russia, the Baltic, Denmark, and the west of France; below 60° over northern and north-western Europe generally, and lowest of all, 48° to 49° over Lapland, 51° at Archangel, 52° at Stornoway, and 55° at Parsonstown, Aberdeen, and Knopio. Touching 70° to 72° in some parts of our Islands and the north of France later, reaching 75° to 79° over the southern half of Sweden, 75° to 82° in Denmark, 80° to 91° in many parts of Germany, Austria, and Italy, and 99° over central Algeria.

Wind light to fresh from the Westward in our Islands, and from North-West over the western part of France, from South-West over Belgium and western Germany, and light to moderate from the South-Eastward over eastern Germany and the Baltic; very variable elsewhere, and small, but well-defined cyclonic circulation over the south and south-east of France. Becoming very strong over the Riviera and northern Italy later; little change on the Atlantic coasts.

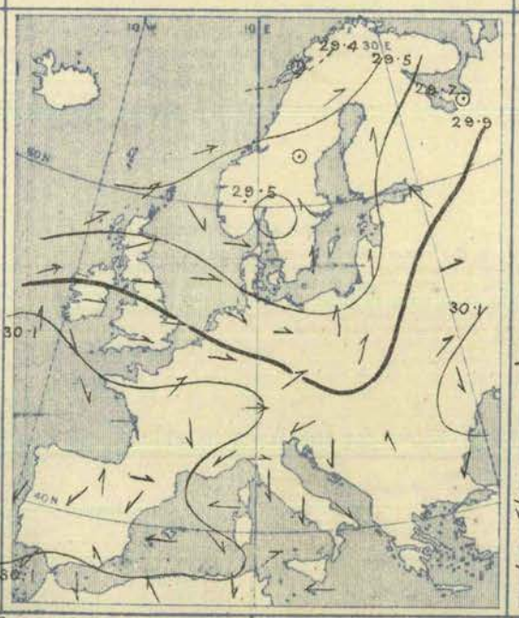
Barometer highest, 30·2 ins. and more to 30·0 ins. over Spain, 30·1 ins. and more to 30·0 ins. over south-eastern Europe, and slightly exceeding 30·0 ins. over the Adriatic and Mediterranean. Lowest, 29·6 ins. and less to 29·7 ins. over the Shetland Islands, Scotland, the eastern half of England and the North Sea. Very shallow local depressions found over Germany and the south of France. Rising somewhat over France, England, and Ireland during the day, as the disturbances over the North Sea moved eastwards.

Friday, 26th August.

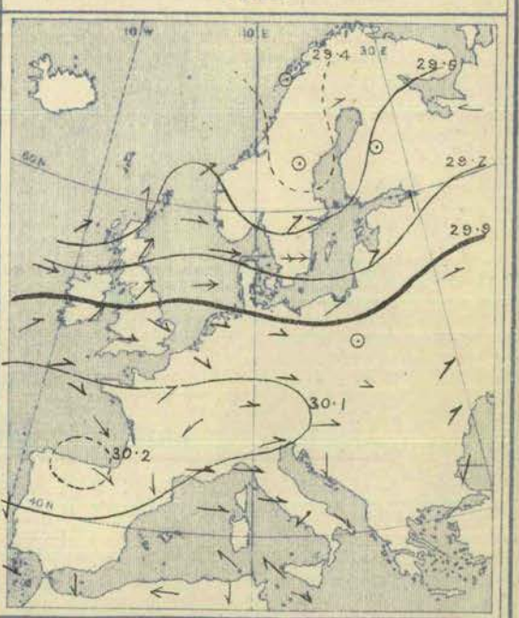
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fine and bright over south-eastern and southern Europe and the Mediterranean, as well as over many parts of the British Islands; cloudy, more or less, elsewhere; overcast in many places; foggy over the north of Scandinavia, rainy in several parts of Germany. Rain later on all our western and northern coasts and in Scandinavia, showers in many parts of Austria, Germany, and France, with lightning in places, and a "water-spout" at Biarritz, yielding 2·7 ins. of rainfall; more than 2 ins. of rain at Cagliari. [Earthquake shocks in central France about 2, 5, and 10 a.m. Friday.]

Temperature fallen decidedly over central Europe. Morning readings still exceeding 70° over the Mediterranean and Adriatic (84° at Brindisi), and also over the Baltic Provinces and eastern Prussia. Below 60° over the greater part of the British Islands and north-western Europe, and lowest of all, 49° at Archangel, 52° at Sumburgh Head, 53° at Stornoway, 55° at Malin Head, Christiansund, Bodö, and Ulcaborg. Maxima below 70° over our Islands, except at some south-eastern stations, but touching 70° and more over the greater part of France, 77° at Berlin and Nice, 80° at Perpignan, 80° to 90° over the southern parts of Italy.

Wind chiefly South-Westerly in Ireland and the north-west of Norway, Westerly to North-Westerly over Great Britain, France, and Germany, Southerly on the eastern shores of the Baltic and in Finland; very variable elsewhere, but chiefly North-Easterly to Northerly over south-western and southern Europe and the Mediterranean. Becoming South-Westerly over the British Islands generally later, freshening greatly in force and becoming decidedly strong on our north-western coasts.

Barometer highest, 30·1 ins. and more to 30·0 ins. (1) over Spain, the Bay of Biscay, France, and south Germany, and (2) over the south of Russia, the Black Sea, and Balkan Peninsula, and exceeding 30·0 ins. all over the Mediterranean and Italy. Lowest, 29·4 ins. and less to 29·5 ins. in a complex disturbance over Scandinavia and the Shetland Islands. A new disturbance approaching Scotland from the westward later, and a secondary appearing over Ireland, and anticyclone in south-west moving south-eastwards.

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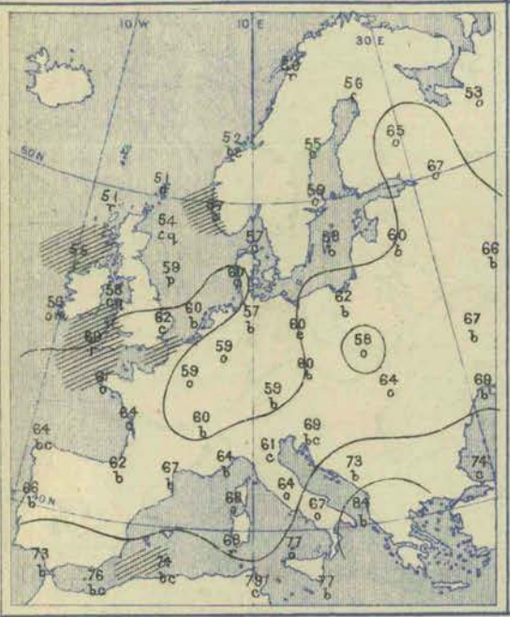
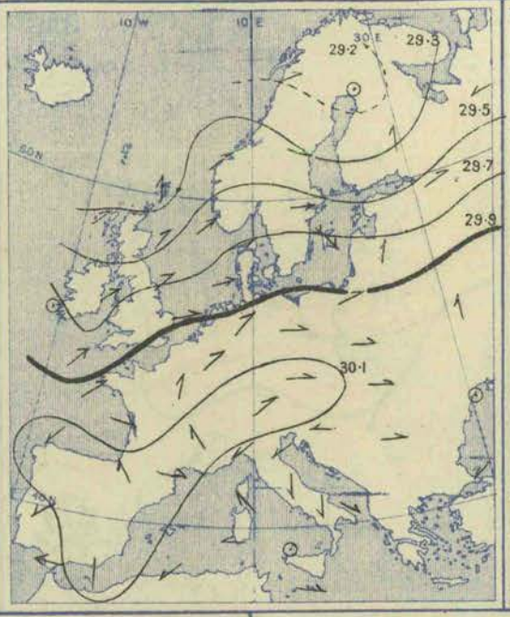
III.—SUMMARY OF WEATHER OVER EUROPE.

Saturday, 27th August.

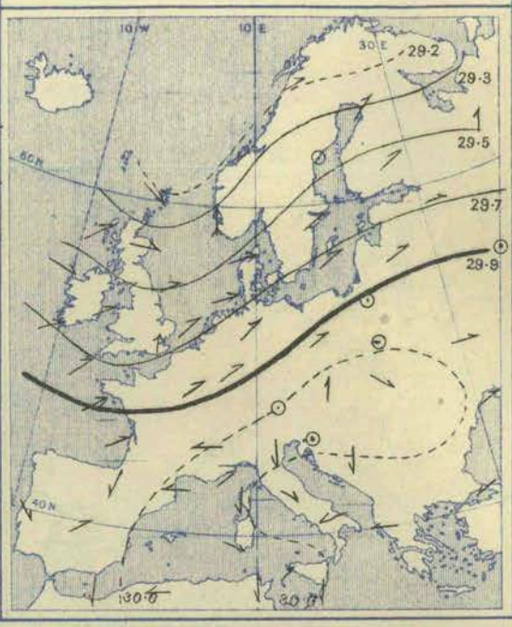
Temperature and Weather. — **8 a.m.**



Barometer and Wind. — **8 a.m.**



Barometer and Wind. — **6 p.m.**



Weather in morning fine and bright over south-eastern and southern Europe, as well as the Mediterranean; fine also over the extreme south-east of England and many parts of north Germany, but very unsettled over the British Islands, north-western and northern Europe, with rain in several places; thunder and lightning at Uleaborg. Very heavy rains over the south-western and southern counties of England later—fall exceeding 1·5 ins. in many places.

Temperature changing little in our Islands, but fallen decidedly in the south. Morning readings now exceeding 70° on the western, southern and eastern shores of the Mediterranean only (84° at Brindisi); below 60° over many parts of France and the greater part of the British Islands. Lowest, 50° at Bodö, 51° at Stornoway and Sumburgh Head, 53° at Malin Head and Wick. Not touching 68° at any of our own stations later, but reaching 70° or more in the south of Sweden, in south Germany, and many parts of France, and exceeding 80° at Biarritz and in Italy, and 100° in some portions of Algeria.

Wind Southerly to South-Westerly over the greater part of our Islands, the North Sea, and Norway, Westerly to North-Westerly in Sweden; light Westerly to South-Westerly over Germany and the northern half of France; mainly North-Easterly in the south of France, variable elsewhere. Rising to a moderate gale over the western part of the Channel later, and backing to East (light) over our south midlands.

Barometer highest, 30·1 ins. and more to 29·9 ins. over Spain, France, the Channel, and Germany. Lowest, 29·2 ins. and less over Lapland, 29·3 ins. and less off the north of Scotland; a small secondary found over Ireland. Disturbances all moving eastwards later, and a new one (small) appearing over our south-western counties.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During this week pressure has again been highest over the western, central, and southern parts of Europe, and lowest in the north-west and north, and there has been a renewal of the unsettled weather over the British Islands, north-western, and northern Europe, brought about by the advance of large and complex, but not deep, disturbances from the south-westward. The falls of rain over the western and southern parts of the Kingdom have been very heavy, varying from three to nearly four times the quantity due to the period at this time of year. Thunder and lightning occurred frequently, and in many places they were very severe.

At the close of the week the high-pressure systems were moving southwards, and decreasing in intensity; the cyclonic systems in the extreme north and north-west were becoming more and more general, and a continuance of rainy weather was probable.

BRIGHT SUNSHINE Values for the Week in addition to those found on page 200.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	36·7	?	37	?	EASTBOURNE	46·2	?	48	?
OSWALDKIRK (Yorkshire)	35·3	?	36	?	TENBY	39·9 *	?	41 *	?
WORKSOP	41·6	+10·0	43	+10	NEWQUAY	33·4	?	34	?
THURCASTON (Leicestershire)	48·2	+14·9	49	+15	TORQUAY	39·8 *	?	41 *	?
MARGATE	42·4	?	44	?	ARLEY COTTAGE (County Cavan)	23·2	?	23	?
WESTBOURNE (Sussex)	50·0 *	?	52 *	?	GUERNSEY	47·3 *	?	49 *	?
BRIGHTON	43·7	?	45	?					

* The values at Westbourne, Tenby, Torquay and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.
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VOL. IX. No. 35.] *Third Series.* WEEK ENDING SATURDAY, 3RD SEPTEMBER, 1892. [*Price 6d.* [*Annual subscription, post paid, £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years' observations (1871-90). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the ten years 1881-90. RAINFALL.—*The Mean amounts* are those for the corresponding periods in the twenty-five years 1866-90, but the *Mean numbers of Rainy Days* are those for the ten years 1881-90, only. BRIGHT SUNSHINE.—*The Mean values* employed are those for the corresponding periods in the ten years 1881-90.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 206.)	Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
								For the Week.				From January 3rd, 1892.			
		Highest.	Lowest.	Averages of Daily Maxima.	Averages of Daily Minima.	Averages of Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	60	35	55·0	44·4	49·4	4 below.	52	−24	0	0	1356	− 8	754	+212
	1. SCOTLAND, EAST -	66	33	57·7	43·7	50·3	4 below.	58	−36	0	0	1602	−170	813	+241
	2. ENGLAND, N.E. - -	69	39	62·1	49·1	55·2	1 below.	92	− 7	0	0	1780	− 99	684	+186
	3. ENGLAND, EAST -	72	43	65·5	50·8	57·7	1 below.	110	− 2	0	0	2107*	− 80	771	+210
	4. MIDLAND COUNTIES	71	38	64·1	49·3	56·3	1 below.	100	− 6	0	0	2109	− 55	802	+250
	5. ENGLAND, SOUTH -	71	45	65·5	54·3	59·6	0 (average)	123	+ 2	0	0	2294	− 63	554	+138
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	63	34	58·1	46·6	52·0	3 below.	70	−22	0	0	1728	− 82	610	+193
	7. ENGLAND, N.W. -	67	40	60·6	50·9	55·5	2 below.	95	−	0	0	1909	− 51	579	+165
	8. ENGLAND, S.W. -	63	37	62·3	51·8	56·7	1 below.	103	− 8	0	0	2168	− 9	433	+117
	9. IRELAND, NORTH -	67	42	58·2	48·7	53·2	3 below.	78	−19	0	0	1871	− 68	484	+122
	10. IRELAND, SOUTH -	68	40	61·6	50·4	55·7	2 below.	96	− 9	0	0	2185	− 6	410	+132
	— CHANNEL ISLANDS -	73	54	65·5	57·2	61·1	1 above.	134	+ 7	0	0	2488	+ 85	164	+ 42

Rainfall.

	DISTRICTS. (See p. 206.)	For the Week.			From January 3rd, 1892.			
		Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	Number of Rainy Days.	Difference from Mean.	Total Fall.	Difference from Mean.
			10ths of In.	10ths of In.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	7	12	3 more.	166	+ 7	29·2	− 0·6
	1. SCOTLAND, EAST -	6	19	12 more.	132	+ 1	18·1	− 2·1
	2. ENGLAND, N.E. - -	5	14	8 more.	128	+ 8	16·5	− 0·1
	3. ENGLAND, EAST -	6	8	2 more.	120	+ 2	16·1*	− 0·3
	4. MIDLAND COUNTIES-	7	11	4 more.	113	− 3	15·1	− 3·1
	5. ENGLAND, SOUTH -	6	10	5 more.	100	−12	13·5	− 3·6
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	6	29	20 more.	129	−10	28·7	− 2·2
	7. ENGLAND, N.W. - -	7	24	17 more.	129	+ 3	22·6	+ 1·4
	8. ENGLAND, S.W. - -	7	18	10 more.	117	−12	17·4	− 7·3
	9. IRELAND, NORTH -	7	16	8 more.	141	− 9	24·2	+ 1·0
	10. IRELAND, SOUTH -	6	15	6 more.	126	−10	25·2	+ 0·3
	— CHANNEL ISLANDS -	6	16	9 more.	117	−20	17·2	− 2·3

Bright Sunshine.

	DISTRICTS. (See p. 206.)	For the Week.				From January 3rd, 1892.			
		Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	21	?	22	?	940	+ 25	28	+ 1
	1. SCOTLAND, EAST -	27	+ 5	28	+ 4	1080	+ 13	33	+ 1
	2. ENGLAND, N.E. - -	29	+ 1	0	0	1026	+ 53	31	+ 1
	3. ENGLAND, EAST -	35	− 1	38	− 2	1234	+ 57	38	+ 2
	4. MIDLAND COUNTIES-	32	− 3	35	− 1	1159	+108	36	+ 3
	5. ENGLAND, SOUTH -	35	− 3	37	− 2	1349	+210	42	+ 7
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	24	− 8	26	− 7	1144	+ 91	35	+ 3
	7. ENGLAND, N.W. - -	25	− 8	26	− 7	1145	+103	35	+ 3
	8. ENGLAND, S.W. - -	31	−12	34	−10	1359	+118	42	+ 4
	9. IRELAND, NORTH -	24	− 2	25	− 1	1023	+ 60	31	+ 1
	10. IRELAND, SOUTH -	28	− 6	30	− 5	1114	0	34	0
	— CHANNEL ISLANDS -	44	− 7	47	− 5	1600	+151	50	+ 5

Bright Sunshine.—For several of the stations there are no "mean" values available, and the "difference from the mean" in some of the districts is consequently that of only a few of the stations.

General Remarks.

Weather during this week was extremely unsettled, with frequent and heavy falls of rain in all districts. Thunderstorms were experienced over the northern parts of England on Tuesday, and again at a few stations on Saturday.

Temperature just equalled the mean in England S., and slightly exceeded it in the Channel Islands. In all other districts it was below, the deficit in the north and east of Scotland being 4°. The highest of the maxima were registered during the earlier part of the period, and ranged from 73° in the Channel Islands, 72° in England E., and 71° in the Midland Counties and England S., to 63° in Scotland W., and 60° in Scotland N. The lowest of the minima were recorded either on August 29th or September 3rd, when the thermometer fell to between 32° and 35° in Scotland, to between 40° and 42° in Ireland, and to between 37° and 45° in England. In the Channel Islands the thermometer did not fall below 54°.

Rainfall exceeded the mean in all districts. Over the Kingdom generally the fall was more than twice as much as the normal, and in some of the north-western districts more than three times as much.

Bright Sunshine was below the mean very generally, but exceeded it at some of the extreme northern stations. The percentage of the possible duration ranged from 47 in the Channel Islands, to between 34 and 38 over the greater part of England, to 26 in Scotland W., 25 in Ireland N., and 22 in Scotland N.

Barometer and Wind.—During the whole of this week depressions travelled in an easterly or north-easterly direction over or to the northward of our Islands, producing strong winds to moderate to fresh gales at many of our western and southern stations, and fresh Westerly and South-Westerly winds in most other places. The most important disturbance appeared off our south-west coasts soon after the commencement of the period, and travelled slowly north-eastward across Ireland, the south of Scotland, and the North Sea. In its rear the barometer rose decidedly, and by the end of the period pressure had become highest in the west. The winds over the United Kingdom therefore veered to the Northward, and began to subside in most places.

* This value has been altered owing to the receipt of further information.

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II.—DATA from which the SUMMARY on page 205 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°				Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head Ⓢ	56	39	54·1	43·9	48·7	− 3·2	47	0	7	0·73	−0·01	*	*	*	*
	Stornoway Ⓢ	59	41	55·0	43·6	49·0	− 3·5	49	0	7	0·78	−0·10	35·9	− 9·6	37	+10
	Wick Ⓢ	60	40	55·9	44·3	49·8	− 3·2	55	0	7	1·03	+0·43	*	*	*	*
	Lairg Ⓢ	60	38	55·3	43·9	49·3	− 3·5	51	0	7	0·91	+0·26	*	*	*	*
	Glencarron Ⓢ	57	38	54·0	43·2	48·3	− 4·2	44	0	7	2·41	+0·90	*	*	*	*
	Fort Augustus Ⓢ	59	35	53·7	45·6	49·4	− 4·9	52	0	7	1·22	+0·56	12·5	?	13	?
	Fort William Ⓢ	60	36	57·0	46·1	51·2	− 3·5	64	0	6	1·29	−0·10	15·3	?	16	?
1. SCOTLAND, E.	Nairn Ⓢ	59	41	57·3	44·1	50·3	− 4·5	58	0	7	1·50	+0·91	*	*	*	*
	Aberdeen Ⓢ	61	39	57·0	45·0	50·6	− 4·1	60	0	6	1·75	+1·08	35·5	+ 4·0	37	+ 4
	Braemar Ⓢ	56	32	54·1	40·6	47·0	− 4·5	41	4	7	2·27	+1·45	16·8†	?†	17†	?†
	Ochtertyre Ⓢ	63	34	58·9	42·0	49·9	− 5·0	55	0	6	2·77	+1·96	*	*	*	*
	Leith Ⓢ	66	38	59·4	46·6	52·6	− 4·0	74	0	6	1·91	+1·31	*	*	*	*
	Marchmont Ⓢ	64	36	59·4	43·7	51·4	− 2·7	66	0	6	1·38	+0·58	31·8	?	33	?
2. ENGLAND, N.E.	Alnwick Castle	65	41	60·4	47·3	53·5	− 1·1	81	0	7	1·77	+1·06	*	*	*	*
	Durham	64	39	61·1	47·2	53·7	− 2·3	82	0	5	2·01	+1·41	26·3	− 3·7	27	− 4
	Shields	66	42	61·7	47·3	54·1	− 2·0	85	0	5	1·43	+0·88	*	*	*	*
	Scarborough 𝔐	67	45	62·7	50·1	56·0	− 0·5	98	0	4	1·23	+0·63	*	*	*	*
	York	69	46	64·0	50·4	56·8	− 0·4	104	0	6	1·14	+0·54	32·3	+ 2·6	34	+ 4
	Spurn Head	68	47	62·6	52·3	57·1	− 1·1	106	0	4	0·58	+0·15	*	*	*	*
3. ENGLAND, E.	Hillington 𝔐	71	43	65·6	49·8	57·2	− 0·5	106	0	5	0·69	+0·09	31·4	− 2·8	33	− 4
	Yarmouth	70	46	64·3	52·1	57·8	− 0·9	111	0	6	0·72	+0·22	*	*	*	*
	Geldeston	71	44	66·1	51·3	58·3	− 0·2	114	0	6	0·90	+0·37	38·3	− 1·4	41	− 1
	Cambridge	72	44	67·0	50·4	58·2	− 0·8	113	0	6	0·76	+0·26	34·6	− 1·2	37	− 2
	Rothamsted	68	44	64·4	50·6	57·1	− 0·6	106	0	6	0·73	+0·15	37·0	?	39	?
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	68	44	63·9	47·6	55·3	− 2·2	93	0	7	1·45	+0·94	*	*	*	*
	Loughborough	70	46	66·1	50·6	57·9	− 0·7	111	0	7	1·11	+0·51	*	*	*	*
	Stamford (Ketton Hall)	71	43	66·9	50·1	58·0	− 0·3	112	0	6	0·56	−0·06	*	*	*	*
	Cheadle 𝔐	65	42	61·4	48·2	54·4	− 1·0	87	0	7	1·95	+1·13	*	*	*	*
	Churchstoke 𝔐	66	43	62·1	47·0	54·1	− 1·8	85	0	7	1·22	+0·58	36·9	+ 0·2	39	+ 3
	Hereford 𝔐	68	46	64·1	51·2	57·3	− 0·8	107	0	6	1·23	+0·65	*	*	*	*
	Cirencester	66	38	63·3	47·9	55·1	− 1·5	92	0	6	0·54	−0·15	31·1	− 4·9	33	− 4
	Oxford	68	46	65·1	51·7	58·0	− 0·7	112	0	6	0·39	−0·13	38·6	+ 1·4	41	+ 2
5. ENGLAND, S.	London	71	47	66·3	52·9	59·2	− 0·8	120	0	7	1·29	+0·79	32·5†	+ 0·2†	35†	0†
	North Foreland	71	49	65·7	54·6	59·8	+ 1·4	125	0	5	0·58	?	*	*	*	*
	Strathfield Turgiss 𝔐	69	45	66·3	51·0	58·2	− 0·7	113	0	7	0·76	+0·26	*	*	*	*
	Dungeness	70	50	65·4	56·6	60·7	+ 0·4	131	0	6	0·77	+0·25	*	*	*	*
	Hastings (St. Leonards)	69	46	64·7	55·2	59·7	− 0·9	124	0	6	1·25	+0·68	37·9	− 3·6	40	− 4
	Southampton	71	48	66·8	54·3	60·2	+ 0·2	127	0	7	1·11	+0·51	38·4	− 3·1	41	− 2
	Hurst Castle	68	54	65·4	57·9	61·4	+ 1·0	133	0	5	1·19	+0·59	*	*	*	*
	Stowell 𝔐	66	46	63·3	51·8	57·2	− 0·2	106	0	6	1·13	?	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	60	38	57·7	44·8	50·9	− 4·3	62	0	6	1·38	+0·09	*	*	*	*
	Glasgow	60	39	57·0	46·2	51·3	− 3·4	65	0	6	3·12	+2·24	21·4	− 5·0	22	− 4
	Ardrossan	61	41	58·1	48·7	53·1	− 3·5	78	0	5	3·54	+2·73	*	*	*	*
	Glenlee Ⓢ	63	34	58·2	44·5	50·9	− 3·4	62	0	5	3·79	+2·79	*	*	*	*
	Douglas (Isle of Man)	62	47	59·4	48·9	53·8	− 1·7	83	0	7	2·86	+2·02	27·3	− 8·5	29	− 9
7. ENGLAND, N.W.	Newton Reigny	63	40	58·9	47·7	53·0	− 0·9	77	0	6	3·69	+2·97	23·5	− 7·4	24	− 7
	Stonyhurst	65	48	59·0	50·5	54·5	− 1·9	88	0	7	3·81	+2·72	25·6	− 6·1	27	− 7
	Blackpool 𝔐	63	50	60·6	52·9	56·4	− 0·8	101	0	7	1·59	+0·76	21·7	−10·3	23	−11
	Manchester	66	45	61·5	49·6	55·2	− 1·7	92	0	7	2·75	+1·94	*	*	*	*
	Liverpool Obsy. (Bidston)	65	50	61·0	51·7	56·1	− 2·0	99	0	7	1·36	+0·70	*	*	*	*
	Llandudno 𝔐	67	50	62·4	52·6	57·2	− 1·3	106	0	7	1·68	+1·01	28·9	− 3·8	30	− 3
	Holyhead	63	50	60·6	51·6	55·8	− 2·1	97	0	6	2·05	+1·37	*	*	*	*
8. ENGLAND, S.W.	Llandovery	67	37	63·3	46·0	54·1	− 3·5	85	0	7	2·36	+1·30	*	*	*	*
	Pembroke	63	52	60·3	55·0	57·5	− 0·7	109	0	7	1·42	+0·73	35·3	− 5·3	38	− 5
	Arlington (N. Devon)	63	46	61·6	50·3	55·6	− 1·1	95	0	7	2·49	+1·39	*	*	*	*
	Cullompton 𝔐	68	45	63·8	51·8	57·4	− 0·1	108	0	6	1·53	+0·84	23·1	−14·9	25	−15
	Falmouth	65	51	62·5	53·1	57·5	− 1·4	109	0	6	2·13	+1·23	32·3	−10·1	35	− 9
	Plymouth															
	Prawle Point	65	52	62·1	54·7	58·2	− 0·6	113	0	6	0·84	+0·38	*	*	*	*
9. IRELAND, N.	Malin Head	60	47	56·3	49·9	52·9	− 2·8	76	0	6	1·19	?	*	*	*	*
	Londonderry	—	42	—	47·3	—	—	—	—	6	1·43	+0·55	*	*	*	*
	Edenfel (Omagh)	62	44	56·0	47·3	51·4	− 3·9	66	0	6	1·87	?	*	*	*	*
	Mullaghmore	64	48	58·7	50·1	54·1	− 2·9	85	0	6	1·21	+0·32	*	*	*	*
	Belmullet	63	49	57·7	50·7	54·0	− 4·1	84	0	7	1·64	?	*	*	*	*
	Markree Castle	67	44	59·4	47·5	53·1	− 2·0	78	0	7	1·58	+0·78	23·5	− 1·9	25	− 1
	Brookeborough	61	43	57·7	46·7	51·9	− 2·7	69	0	7	2·09	+1·31	*	*	*	*
	Armagh	62	44	59·7	47·3	53·1	− 2·6	78	0	7	1·40	+0·67	25·6	− 0·2	27	− 1
	Donaghadee	61	49	58·9	52·0	55·3	− 0·4	93	0	7	1·36	+0·61	*	*	*	*
	Edgeworthstown	63	43	59·4	46·9	52·8	− 2·7	76	0	6	2·14	+1·40	*	*	*	*
10. IRELAND, S.	Dublin	67	47	61·8	50·4	55·8	− 1·9	97	0	6	1·29	+0·69	31·0	− 3·2	33	− 2
	Parsonstown	67	44	61·3	48·7	54·6	− 1·9	88	0	7	1·32	+0·55	24·4	− 6·0	26	− 6
	Kilkenny	66	40	62·1	49·1	55·2	− 2·0	92	0	6	0·97	+0·17	*	*	*	*
	Waterford	67	43	63·7	49·7	56·3	− 1·8	100	0	6	1·44	+0·56	*	*	*	*
	Roche's Point	64	48	61·1	52·0	56·3	− 1·8	100	0	6	1·87	+0·90	*	*	*	*
	Valencia	67	51	61·3	52·4	56·6	− 1·4	102	0	5	1·06	−0·04	29·7	− 3·9	32	− 3
	Killarney	67	45	60·8	50·0	55·1	− 2·3	92	0	7	2·41	?	*	*	*	*
	Foynes	68	43	60·6	50·7	55·4	− 1·5	94	0	6	1·25	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	68	54	63·6	56·0	59·6	0·0	123	0	6	2·14	+1·47	*	*	*	*
	Jersey	73	55	67·4	58·3	62·6	+ 0·9	144	0	5	1·04	+0·38	44·0	− 7·0	47	− 5

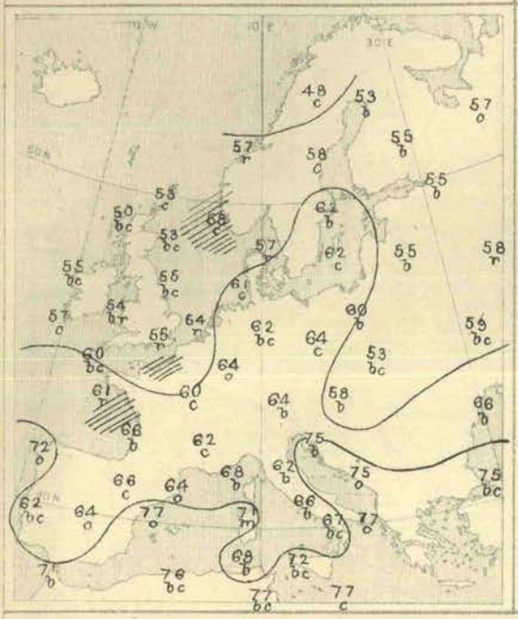
Stations marked 𝔐 are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

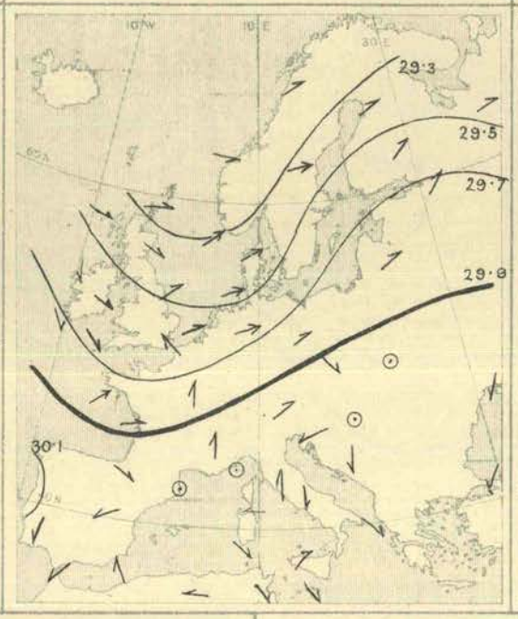
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory and the Meteorological Office, Victoria Street. For additional Reports of Sunshine see last page. NOTE.—It will be observed that Edenfel (Omagh) has been added to the list of stations in "Ireland, N."

Sunday, 28th August.

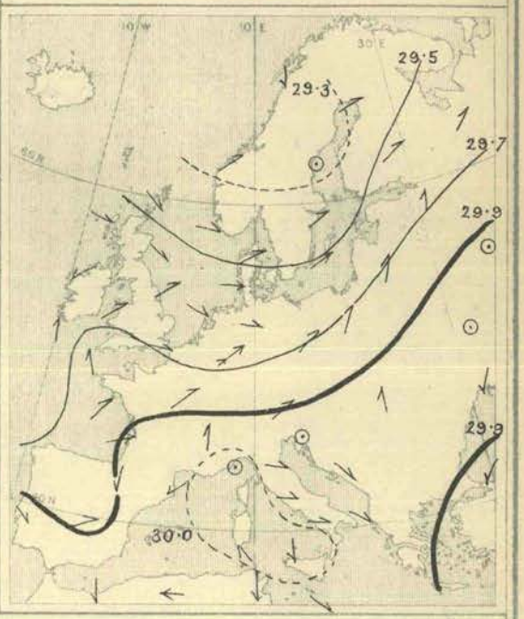
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather fine over the greater part of our Islands and the Continent, but heavy rain reported over all the south-eastern parts of England; dull at many of the German stations, and also over central Russia, with rain at Moscow. A considerable improvement taking place later in the south-east of England, but showers falling at several of our northern stations. Heavy rain setting in on our south-west coasts and in the north-west of France at night, and spreading north-eastwards quickly, but with less intensity. The fall over south-east of England passing on to Holland, and a separate fall taking place over northern Europe.

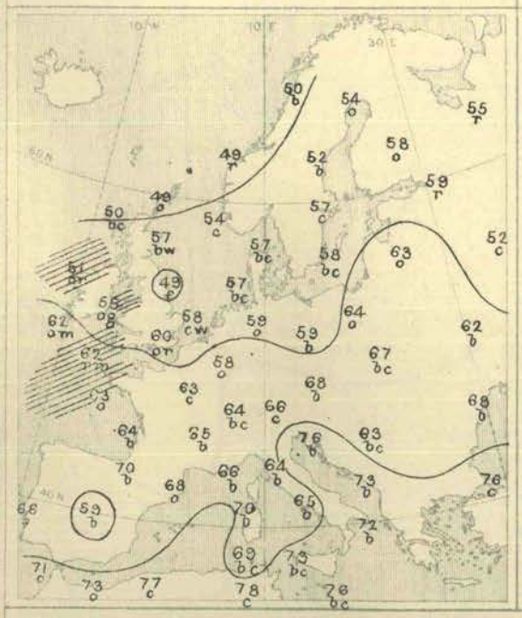
Temperature highest, 77° at Barcelona, Brindisi, and Sfax, 76° at Algiers, and 75° at Trieste, Lésina, and Constantinople; above 70° at most of the Mediterranean and Adriatic stations. Lowest, 48° at Bodö and Christiansund, 50° at Stornoway, 51° at Wick and Parsonstown, and 53° at Haparanda, Sumburgh Head, Aberdeen, Malin Head, and Oxford. Rising during day to between 65° and 70° over the inland parts of England, 70° and more in Sweden, 75° and more over France and Spain, and reaching 82° at Lyons, 84° at Clermont, 80° and more in many parts of Italy, and 100° in some parts of Algeria.

Wind light from North-West in the west and north of our Islands, but moderate to strong from South-West on our south and east coasts, as well as over the greater part of France, Germany, Denmark, Scandinavia, and northern Russia; calm in Austria, variable in the south of Russia, and also over Spain; light from North in Italy and Algeria. Subsequently veering to West in the south-east of England, and blowing strongly from South-West over the Netherlands, but backing to the Southward on all our south-west coasts.

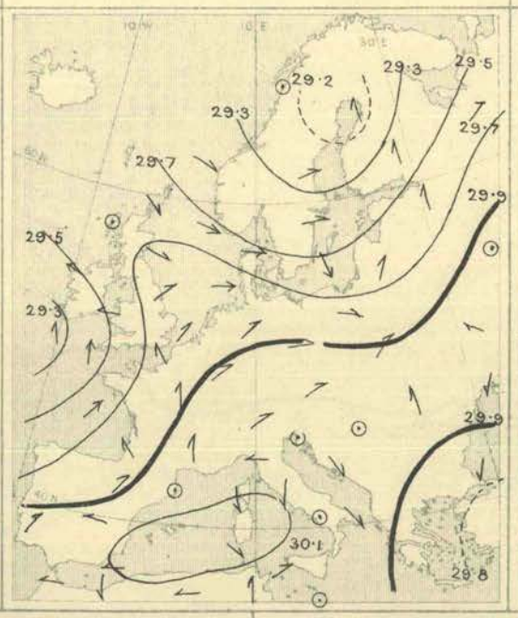
Barometer highest, 30·0 ins. and more in an anticyclone covering a considerable portion of southern and eastern Europe. Lowest, 29·2 ins. and less in a large depression lying to the west of Norway; a small secondary disturbance over the south of England moving eastwards. Latter system subsequently disappearing to the eastward, but new and larger depression approaching our south-west coasts from the south-westward.

Monday, 29th August.

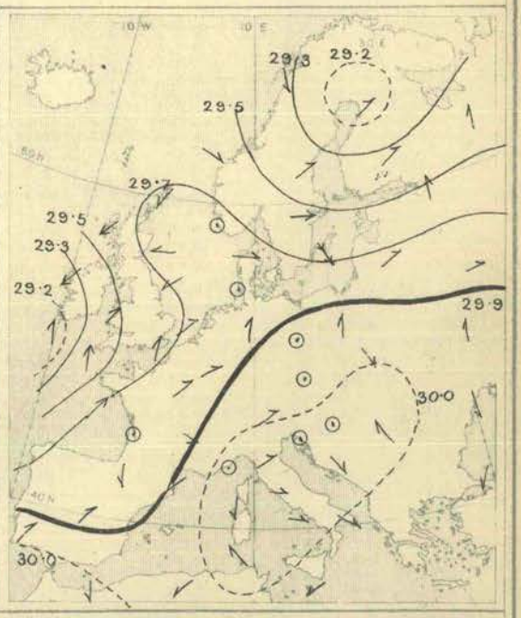
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fine and bright over south-western, southern, and south-eastern Europe, as well as in the north and east of Scotland, and some parts of Sweden; cloudy or overcast elsewhere; very unsettled over Ireland and England, and also over northern Europe, with rain in many places. Heavy rain later at many of our western and north-western stations, a considerable quantity in the east and south-east of Scotland and the north of England, as well as over some parts of northern Europe; lightning seen in several places, thunderstorm at Mullaghmore.

Temperature in morning, highest, 70° or more at most of the Mediterranean and Adriatic stations, and at Constantinople, and exceeding 60° over the greater part of eastern, central, and western Europe; below 60°, however, over northern Europe and the greater part of the United Kingdom, and lowest of all, 49° at Sumburgh Head and Christiansund, 50° at Leith, Stornoway, and Bodö, 52° at Mullaghmore, Holyhead, Hernösand, and Moscow. Rising later to 70° or more at several of our southern stations, to 79° at Wiesbaden, to 83° at Paris and Lyons, to 86° and more over Italy and Austria, to 93° at Biarritz, and to 100° and more over central Algeria.

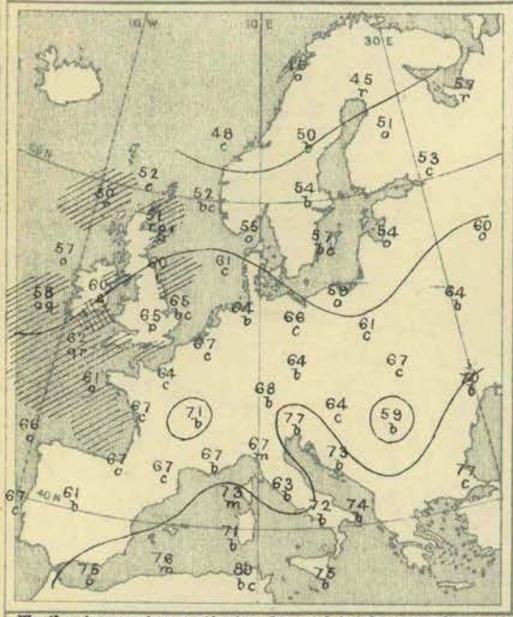
Wind very light and variable over southern and south-eastern Europe, but distinct cyclonic circulations prevailing: (1) Southerly over the Channel and the south of our Islands, South-Easterly over the north of England, Easterly in the north of Ireland, calm over Scotland; (2) Westerly over Norway, Denmark, and north Germany, South-Westerly over the Baltic Provinces, Southerly over Finland. Wind over our Islands increasing in strength later, and becoming Easterly to Northerly at the Scotch stations.

Barometer highest, 30·1 ins. and more to 29·9 ins. over south-western, southern, and central Europe, as well as over the southern half of Russia. Lowest, 29·2 ins. and less in a large but shallow depression lying over the northern parts of Scandinavia, and 29·3 ins. and less in a deeper system extending over the western parts of our Islands from the Atlantic. Latter disturbance moving north-eastwards later, and spreading well to the eastward over the United Kingdom.

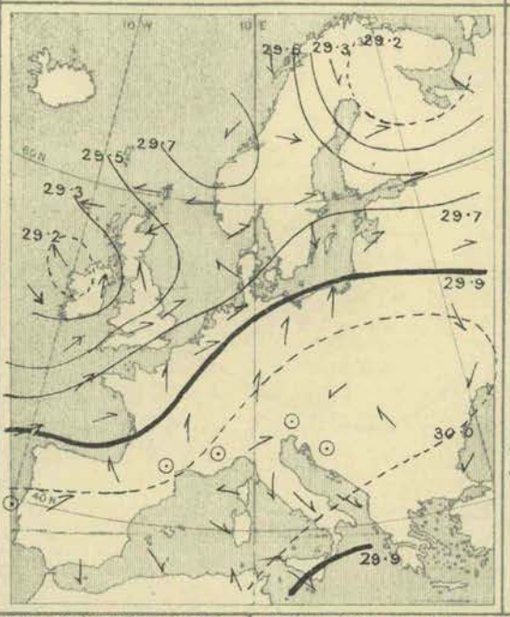
Judd & Co Ltd, Lith. 63, Carter Lane, Doctors' Commons

Tuesday, 30th August.

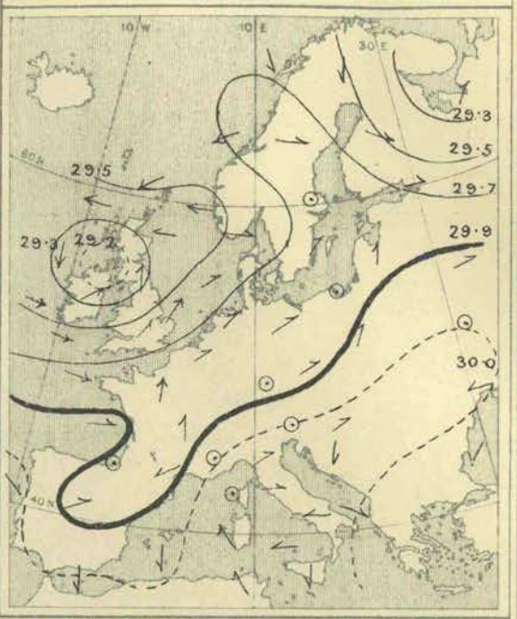
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning continuing fine and bright over the south-eastern and southern parts of Europe, and fair over France, Germany, and Denmark, temporarily clear over Sweden also; cloudy or overcast, and very unsettled, both in the British Islands and northern Europe, with rain in many places, and a threatening appearance at Wick. Rain later except in Sweden, Germany, and the south-eastern parts of our Islands, the falls being heavy in the north-east and east of Scotland; thunderstorms and heavy rain occurring at some of the French stations.

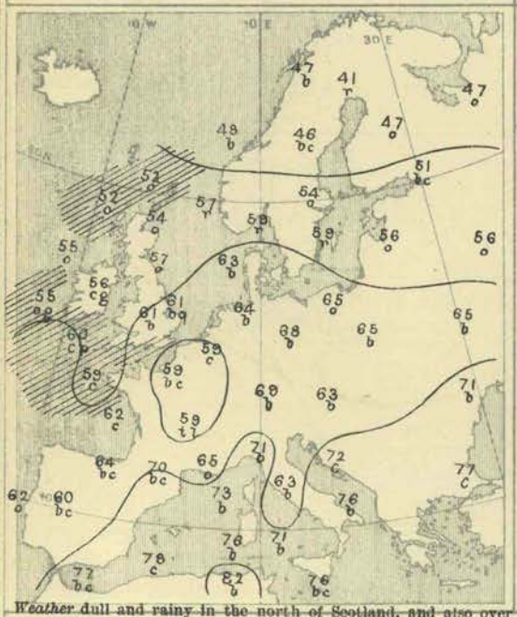
Temperature changing fitfully—risen considerably over the northern parts of England and Ireland. Morning readings all below 80°, but exceeding 70° over the southern parts of the Mediterranean, and at Lyons. Still exceeding 60° over the greater part of Europe, but as low as 50° to 52° in the north of Scotland, and lowest of all, 43° at Haparanda, 46° at Bodö, 48° at Christiansund. Rising during day to 80° and more over Germany and many parts of France, Spain, and Italy, and to 70° and more over the greater part of England, but failing to reach 60° in the north of Scotland; exceeding 100° over central Algeria.

Wind very light over all the southern, central, and eastern countries, moderate to fresh South-Westerly in the north of France, light and variable over Denmark and Norway. Two well-defined cyclonic circulations prevalent—one of very strong winds over the British Islands, the other over northern Europe. Easterly wind in Scotland moderating later, but South-Westerly wind in the Channel increasing to a gale; no important change occurring elsewhere.

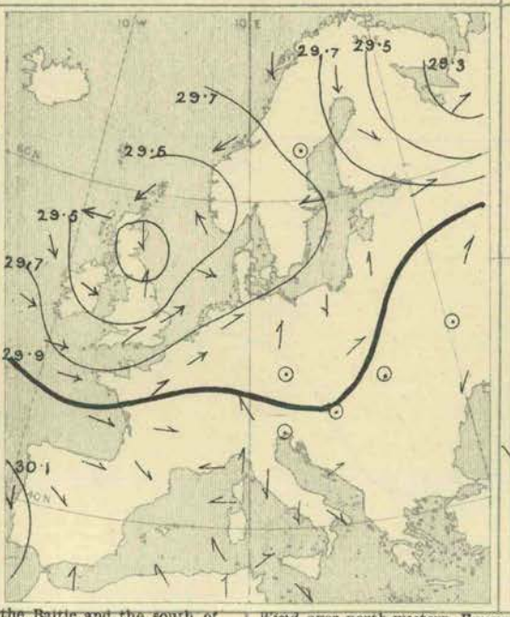
Barometer highest, 30·0 ins. and more to 29·9 ins. over south-western, southern, central, and eastern Europe, and exceeding 29·7 ins. in the west of Norway. Lowest, 29·2 ins. and less in two well-marked depressions—one having its central area over Ireland, the other over the north of Finland, the White Sea, and the Kola Peninsula. Both disturbances moving slowly to the north-eastward later; barometer rising briskly on our south-west coasts, and less rapidly over northern Europe.

Wednesday, 31st August.

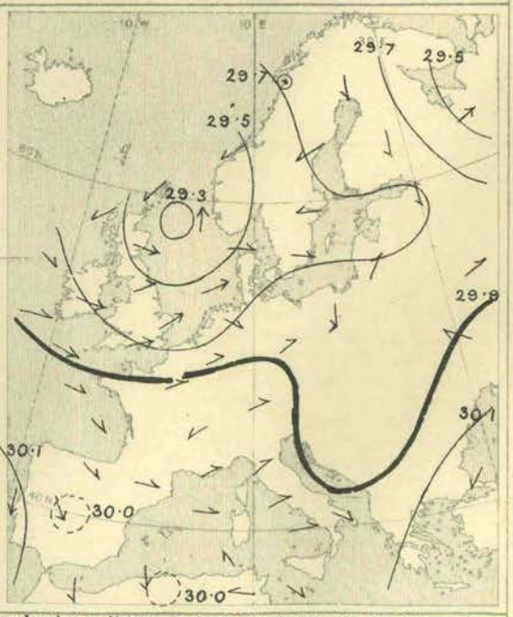
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather dull and rainy in the north of Scotland, and also over the Baltic and the south of Scandinavia; showery at several of the English and Irish stations; fine in most other parts of Europe, but a thunderstorm reported at Lyons. Rain ceasing later in the north of Scotland, but heavy falls occurring in many parts of France, Germany, and Denmark. Showers continuing at the English and Irish stations, with thunderstorms in some parts of our eastern and midland counties. A little rain falling over northern and central Russia, and larger amounts in the south of Norway.

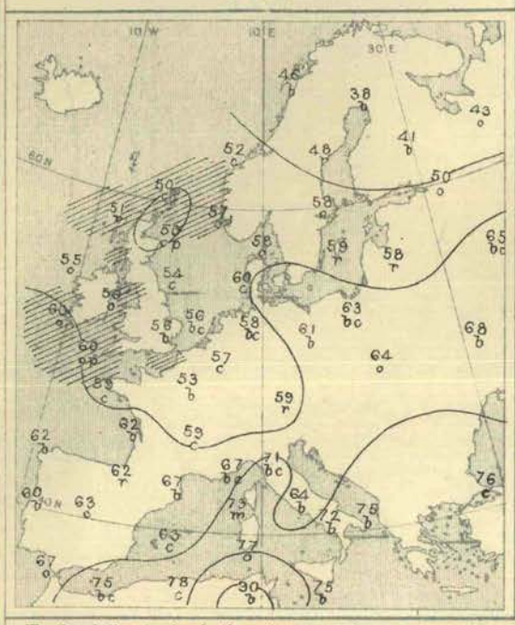
Temperature in morning above 65° in Germany, above 70° over the Mediterranean and Adriatic, and above 80° at some of the Algerian stations, the highest reading of all being 86° at Aumale. Below 55° in the north and north-west of our Islands, and below 50° over the northern parts of Scandinavia and Russia, the lowest readings being 41° at Haparanda, 45° at Uleaborg, and 46° at Hernösand. Daily maxima below 60° in nearly all the more western and northern parts of the United Kingdom, but thermometer exceeding 65° at some of our southern and south-eastern stations. Exceeding 80° over southern Europe generally, and exceeding 90° in Algeria, the highest readings being 106° at Laghouat, and 100° at Aumale.

Wind over north-western Europe showing a distinct cyclonic circulation, the North-Easterly current being strong in the north of Scotland, and the Westerly wind blowing with the force of a gale in the English Channel; moderate from the Northward in Lapland, light from the South-Westward over northern and central Russia, light and variable in the more southern and eastern countries, but Southerly or South-Easterly in Algeria. Gale in Channel increasing in force during day, but wind moderating in the north of Scotland; no important change occurring elsewhere.

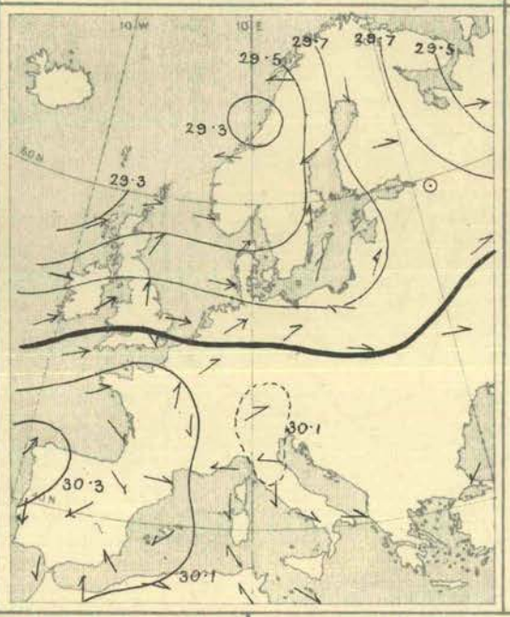
Barometer highest, 30·00 ins. to 30·15 ins. over nearly the whole of southern and eastern Europe. Lowest, 29·3 ins. and less in two well-marked depressions—one lying over the north-east of Great Britain, and the other in the neighbourhood of the White Sea. Former disturbance subsequently travelling in a north-easterly direction across the North Sea; small secondary systems passing eastwards over England and Ireland during day. Depression over White Sea beginning to disperse gradually.

Thursday, 1st September.

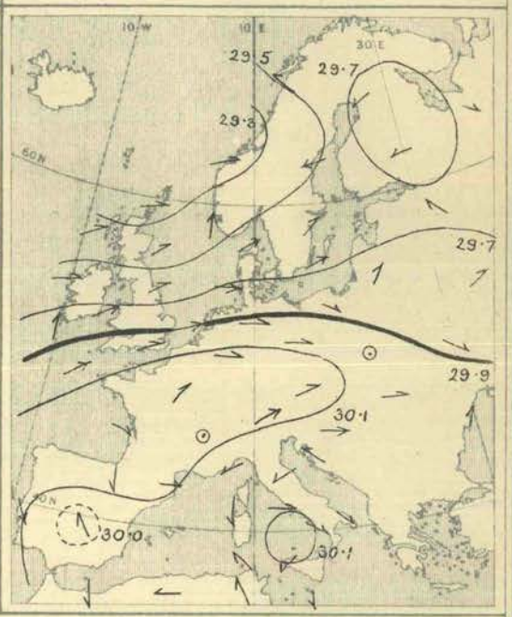
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather dull and rainy in the extreme north-west of our Islands, as well as at several of the Scandinavian stations, and showery in the south-west of England; fine in most other parts of Europe, but rainy in Bavaria. (The Austrian reports are not to hand.) Unsettled showery weather becoming general over our Islands later, the amount of rain being in some cases very considerable; large quantities falling also in some parts of Sweden and Finland.

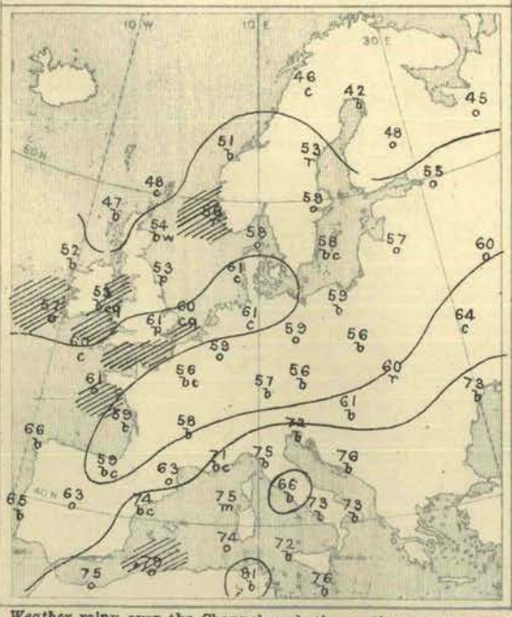
Temperature in morning above 70° at most of the Adriatic and Mediterranean stations, and above 80° in Tunis and central Algeria, the highest readings of all being 90° at La Calle, and 86° at Aumale. Below 55° over the northern parts of Great Britain, and below 50° over the northern parts of Russia and Scandinavia, the lowest readings of all being 38° at Haparanda, 40° at Uleaborg, 41° at Kuopio, and 43° at Archangel. Rising during day to between 65° and 70° in the south of England, and to between 70° and 75° in many parts of France; exceeding 80° in Italy and central Spain, and exceeding 90° in Algeria, the highest reading of all being 102° at Tunis.

Wind moderate to strong from the South-Westward over our Islands, the Netherlands, Denmark, Germany, and the Baltic, but Southerly in the south of Sweden, and Easterly or North-Easterly over Finland and the northern parts of Scandinavia; light and variable in Algeria, Italy, and the south of France; North-Easterly or Northerly in Spain. Subsequently increasing to a moderate or fresh gale from the Westward over the eastern parts of the English Channel, and to a strong breeze from the Eastward over the northern parts of Scandinavia; no important change occurring elsewhere.

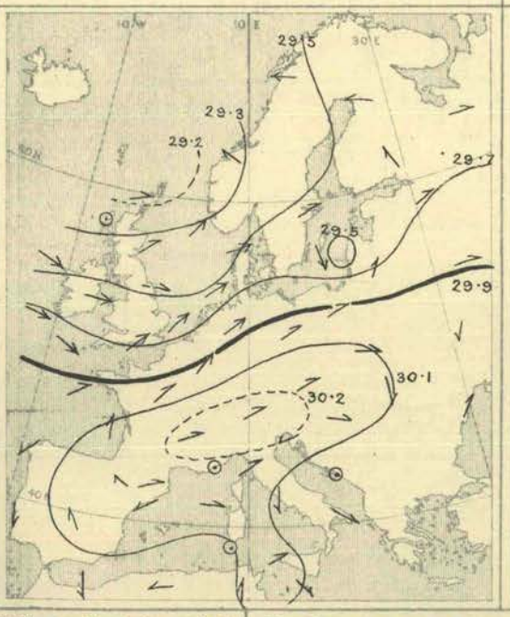
Barometer highest, 30·3 ins. and upwards in the north-west of Spain, 30·0 ins. and upwards in an anticyclone covering the entire southern half of Europe. Lowest, 29·3 ins. and less in a depression lying over Norway, and also in another system off the north-west of Scotland; 29·5 ins. and less in a third disturbance lying over northern Russia. Scotch and Norwegian depressions becoming united later; new disturbance approaching the Irish coasts in evening. Depression over northern Russia passing away to the eastward, and feeble high pressure system appearing over Lapland.

Friday, 2nd September.

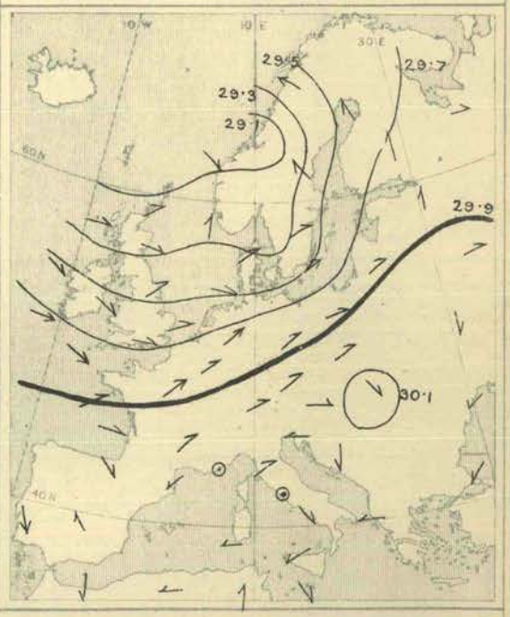
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather rainy over the Channel and the southern parts of England, as well as in the south of Scandinavia, showery over Ireland and the north of England; fine over the greater part of the Continent, but dull in northern and central Russia, and also in Algeria. Some improvement taking place later over our southern counties, but rain continuing all day in the extreme south-east, and extending to many parts of northern and central Europe—amounts large in several places, the heaviest of all being 1·6 ins. at Charleville; heavy rain falling also in the south of Russia—as much as 1·7 ins. at Kiev.

Temperature highest, 70° or more over the Adriatic and Mediterranean, and also in the south of Russia, the highest readings of all being 81° at Tunis, and 79° at Algiers and Aumale. Lowest, 45° or less over Lapland and northern Russia, below 50° in the Shetlands, Hebrides, and extreme north of Ireland, and below 55° over the northern parts of our Islands generally. Daily maxima below 60° at many of our western and northern stations, but thermometer exceeding 65° in some parts of central England; exceeding 70° over France and Germany, and exceeding 80° over southern Europe generally, the highest readings of all being 95° at Madrid, and 93° at Palermo.

Wind Westerly in Ireland, Wales, and the south-west of England, but South-Westerly in nearly all other parts of western and central Europe, strong in many places, with a moderate to fresh gale on the south and east coasts of England; moderate to strong from the Eastward over the north of Scandinavia and light from the same quarter in Finland; light and variable over the whole of southern Europe, and also in Algeria. Gale on the English coasts moderating later, and wind veering to the Westward; no important change elsewhere.

Barometer highest, 30·2 ins. and upwards over south Germany, Switzerland, and central France; 30·0 ins. and upwards in a large anticyclone covering all the more central and southern parts of the Continent. Lowest, 29·2 ins. and less in a large depression lying to the northward of our Islands, 29·5 ins. and less in a small secondary system near Gothland. Other secondary disturbances lying over various parts of our Islands and the North Sea in morning, but afterwards travelling away to the eastward. Barometer on our western coasts very unsteady all day.

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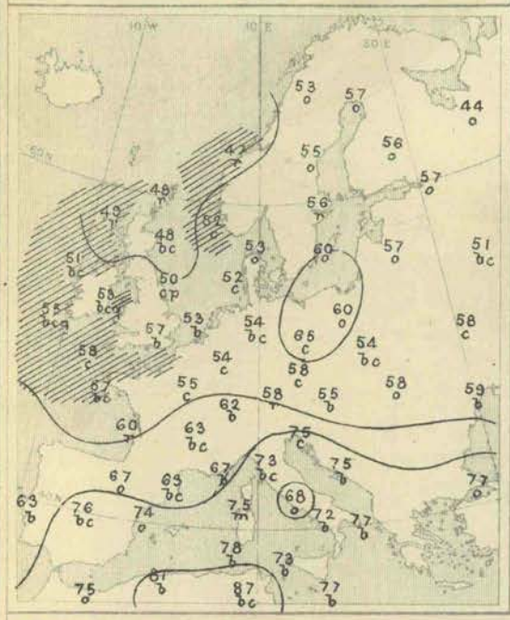
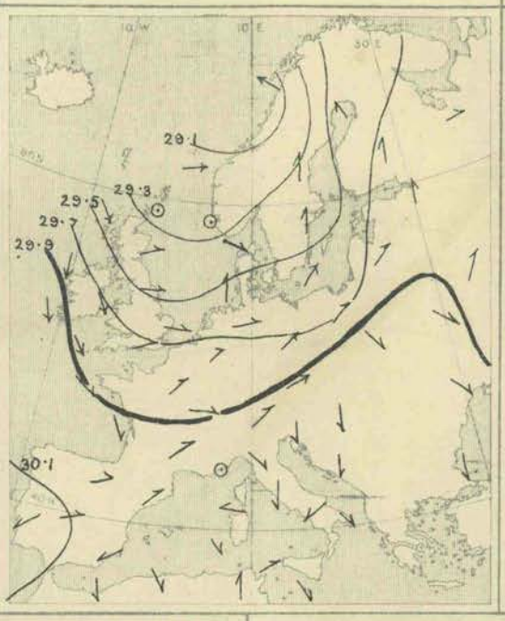
III.—SUMMARY OF WEATHER OVER EUROPE.

Saturday, 3rd September.

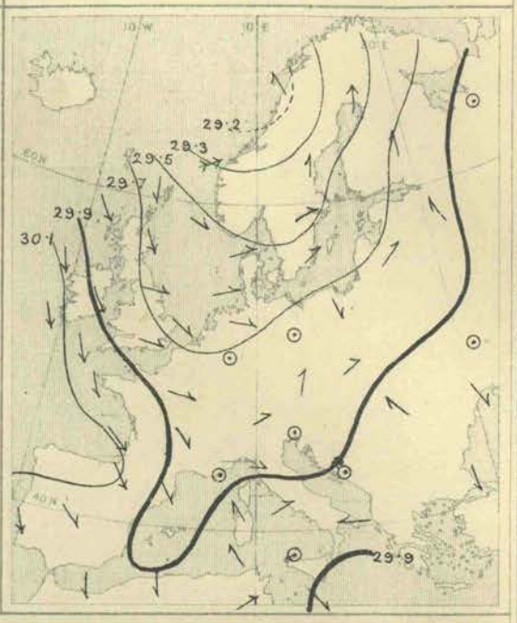
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather fine and bright in the eastern and south-eastern parts of Great Britain, and also over southern and eastern Europe generally; cloudy or overcast elsewhere, with passing showers in the west of our Islands, and with steady rain in the north of Scotland, as well as at some of the Scandinavian and German stations. Showers falling later in many parts of western Europe, and heavy rain occurring over the more northern countries. Thunderstorms reported during day at Heligoland, Lyons, and Constantinople; lightning seen at some of the English stations at night.

Temperature in morning reaching 70° or more over Spain, Algeria, the Mediterranean, and the Adriatic, the highest readings of all being 87° at La Calle, and 81° at Algiers. Lowest, (1) 44° at Archangel; (2) 46° at Nairn, 47° at Christiansund, and 48° at Sumburgh Head and Aberdeen; below 55° in all but the most southern parts of our Islands. Daily maxima not much above 60° in any part of the Kingdom, and below 55° in the extreme north. Thermometer exceeding 70° in the south of France, and exceeding 80° in Spain, Italy, and Austria, the highest readings in Europe being 99° at Palermo and 90° at Rome.

Wind very strong from the North-Westward on the west coasts of our Islands, and moderate from the same quarter in the west of France; moderate to fresh from the Westward in the eastern part of Great Britain, from the South-Westward in Germany, from the Southward over Finland, Sweden, and the Baltic, and from the South-Eastward in the north of Scandinavia; variable in Austria and southern Europe, chiefly Northerly in Algeria. Subsequently veering to the North-Westward in all parts of our Islands, and increasing to a gale in the north of Ireland; falling light and variable at the German stations.

Barometer highest, 30·1 ins. and upwards in Spain, 30·0 ins. and upwards over the greater part of Italy and Austria, but below that level at the Adriatic stations. Lowest, 29·1 ins. and less in a large depression lying off the west of Norway; small secondary disturbances passing across Great Britain and the North Sea. Latter systems subsequently travelling away to northern Europe, and barometer rising over the whole of the United Kingdom—quickly on our western and northern coasts.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟿ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze: and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During the greater part of the week a large anticyclone covered the southern and eastern portions of Europe, the wind in those regions being light and variable, and the weather fine and warm. Over the north-western and northern countries the conditions were influenced by a series of large depressions which advanced over Scandinavia from the Atlantic. The prevailing winds were, therefore, South-Westerly (South to West), and the weather very changeable and unsettled, with heavy falls of rain in most districts. The centres of the low pressure systems kept, as a rule, to the north-westward and northward of our Islands, but the well-marked disturbance which prevailed between the 28th and 30th passed directly over Ireland and Scotland and occasioned gales on many parts of our coasts—from the South-Westward or Westward in the south, but from the Eastward and North-Eastward in the extreme north. At the close of the week some small secondary disturbances which had traversed the United Kingdom were passing away to central Europe, and were occasioning unsettled weather in France and Germany. The barometer was rising rapidly in our Islands, with Northerly winds, and a large anticyclone was advancing over our western coasts from the Atlantic.

BRIGHT SUNSHINE Values for the Week in addition to those found on page 206.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	21·8	?	23	?	EASTBOURNE	33·7	?	36	?
OSWALDKIRK (Yorkshire)	27·9	?	29	?	TENBY *	33·6 *	?	36 *	?
WORKSOP	27·2	− 2·7	29	− 2	NEWQUAY	33·5	?	36	?
THURCASTON (Leicestershire)	29·2	− 1·7	31	− 2	TORQUAY *	30·6 *	?	33 *	?
MARGATE	31·0	?	33	?	ARLEY COTTAGE (County Cavan)	21·8	?	23	?
WESTBOURNE (Sussex)	33·8 *	?	36 *	?	GUERNSEY	43·0 *	?	46 *	?
BRIGHTON	36·1	?	38	?					

* The values at Westbourne, Tenby, Torquay and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.
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VOL. IX. No. 36.] *Third Series.* WEEK ENDING SATURDAY, 10TH SEPTEMBER, 1892 [*Price 6d.* [*Annual subscription, post paid, £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years' observations (1871-90). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the ten years 1881-90. RAINFALL.—*The Mean amounts* are those for the corresponding periods in the twenty-five years 1866-90, but the *Mean numbers of Rainy Days* are those for the ten years 1881-90, only. BRIGHT SUNSHINE.—*The Mean values* employed are those for the corresponding periods in the ten years 1881-90.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 212.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1892. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	63	38	56·6	45·3	50·7	2 below.	61	−11	0	0	1417	− 19	754	+212
	1. SCOTLAND, EAST	70	33	60·2	42·8	51·1	2 below.	64	−23	0	− 1	1666	−189	819	+241
	2. ENGLAND, N.E.	67	36	60·2	45·4	52·5	3 below.	74	−19	0	− 1	1854	−117	684	+186
	3. ENGLAND, EAST	67	35	61·5	44·2	52·4	5 below.	73	−33	0	0	2180	−111	771	+210
	4. MIDLAND COUNTIES	69	35	61·9	44·3	52·7	4 below.	75	−25	0	− 1	2182*	− 79	802	+250
	5. ENGLAND, SOUTH	66	39	61·3	46·1	53·8	5 below.	83	−32	0	0	2377	− 92	554	+138
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	66	34	51·2	46·1	52·3	2 below.	72	−15	0	0	1800	− 96	610	+193
	7. ENGLAND, N.W.	64	37	59·4	48·3	53·6	3 below.	81	−17	0	0	1990	− 65	579	+165
	8. ENGLAND, S.W.	69	37	60·9	48·0	54·2	3 below.	85	−22	0	0	2253	− 26	433	+117
	9. IRELAND, NORTH	69	37	59·6	48·2	53·6	1 below.	81	−11	0	0	1952	− 78	484	+122
	10. IRELAND, SOUTH	68	40	61·5	50·0	55·5	1 below.	95	− 3	0	0	2280	− 10	410	+132
	— CHANNEL ISLANDS	65	46	62·1	51·9	56·8	3 below.	104	−19	0	0	2592	+ 71	164	+ 42

Rainfall.

	DISTRICTS. (See p. 212.)	For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1892. Number of Rainy Days.	Difference from Mean.	Total Fall.	Difference from Mean.
			10ths of In.	10ths of In.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	5	5 less.	171	+ 7	29·7	− 1·0
	1. SCOTLAND, EAST	2	2	5 less.	134	− 1	18·3	− 2·6
	2. ENGLAND, N.E.	3	3	3 less.	131	+ 7	16·8	− 0·4
	3. ENGLAND, EAST	2	1	5 less.	122	0	16·2	− 0·8
	4. MIDLAND COUNTIES	3	1	6 less.	116	− 4	15·2	− 3·7
	5. ENGLAND, SOUTH	2	1	5 less.	102	−14	13·6	− 4·1
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	4	4	6 less.	133	− 9	29·1	− 2·8
	7. ENGLAND, N.W.	5	7	1 less.	134	+ 4	23·3	+ 1·3
	8. ENGLAND, S.W.	4	3	6 less.	121	−12	17·7	− 7·9
	9. IRELAND, NORTH	6	6	2 less.	147	− 7	24·8	+ 0·2
	10. IRELAND, SOUTH	5	9	0 (average)	131	−10	26·1	+ 0·3
	— CHANNEL ISLANDS	4	2	5 less.	121	−19	17·4	− 2·8

Bright Sunshine.

	DISTRICTS. (See p. 212.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1892. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	21	− 1	22	− 1	961	+ 17	28	0
	1. SCOTLAND, EAST	33	+ 9	36	+10	1113	+ 12	33	+ 1
	2. ENGLAND, N.E.	35	+ 8	39	+ 9	1061	+ 60	31	+ 1
	3. ENGLAND, EAST	32	− 2	35	− 2	1266	+ 58	38	+ 2
	4. MIDLAND COUNTIES	27	− 6	29	− 5	1186	+107	35	+ 3
	5. ENGLAND, SOUTH	34	− 3	37	− 1	1383	+212	42	+ 7
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	37	+ 7	40	+ 8	1181	+ 96	35	+ 3
	7. ENGLAND, N.W.	29	− 2	32	− 1	1174	+103	35	+ 3
	8. ENGLAND, S.W.	22	−17	24	- 20	1381	+106	42	+ 4
	9. IRELAND, NORTH	27	0	29	0	1050	+ 63	31	+ 2
	10. IRELAND, SOUTH	23	− 9	25	− 9	1137	− 8	34	0
	— CHANNEL ISLANDS	33	− 7	37	− 7	1633	+145	49	+ 4

Bright Sunshine.—For several of the stations there are no "mean" values available, and the "difference from the mean" in some of the districts is consequently that of only a few of the stations.

General Remarks.

Weather was generally cloudy in the western and north-western districts, with frequent, but mostly slight, falls of rain. In the more southern and eastern parts of the Kingdom the conditions were fairer and drier.

Temperature was below the mean in all districts; in Ireland the deficit was only 1°, and in Scotland 2°, but in England it ranged from 3° to 5°. The highest of the maxima were recorded at most stations on the 10th, and varied from 63° in Scotland N., and 64° in England N.W., to 70° in Scotland E. During the greater part of the week the daily maxima scarcely exceeded 60°. The lowest of the minima were registered on rather irregular dates; they ranged from 33° in Scotland E., 34° in Scotland W., and 35° over eastern and central England, to 40° in Ireland S., and 46° in the Channel Islands.

Rainfall just equalled the mean in Ireland S., but in all other districts it was less than the normal. Over eastern, central, and southern England the fall was very slight.

Bright Sunshine was below the mean for the time of year over the Kingdom as a whole, but above it in England N.E. and some parts of Scotland. The percentage of the possible amount of duration ranged from 22 in Scotland N., 24 in England S.W., and 25 in Ireland S., to 37 in England S. and the Channel Islands, 39 in England N.E., and 40 in Scotland W.

Barometer and Wind.—At the commencement of the week pressure was highest in the west, and lowest in the east, and the winds moderate from the Northward. These conditions, however, soon changed, and during the remainder of the period the barometer was highest in the south-west or south, and lowest in the north-west, north, or north-east. No serious depressions appeared immediately over our Islands, but several small disturbances (subsidiary to large systems to the northward of us) passed in an easterly or north-easterly direction over various parts of the Kingdom. The winds were generally moderate or light from between South-West and West, but occasionally veered temporarily to the North-Westward.

* This value has been altered owing to the receipt of further information.

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II.—DATA from which the SUMMARY on page 211 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°				Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head ℌ	58	42	54·4	45·0	49·5	− 1·9	5	0	5	0·66	−0·09	*	*	*	*
	Stornoway ℌ	59	42	56·3	45·6	50·7	− 1·1	61	0	7	0·64	−0·27	25·2	− 0·5	27	− 1
	Wick ℌ	62	40	57·1	45·1	50·8	− 1·7	62	0	2	0·17	−0·43	*	*	*	*
	Lairg ℌ	62	43	57·0	45·6	51·0	− 1·1	63	0	4	0·41	−0·27	*	*	*	*
	Glencarron ℌ	60	43	55·8	45·2	50·3	− 1·3	58	0	5	0·78	− 0·75	*	*	*	*
	Fort Augustus ℌ	63	38	58·1	43·6	50·5	− 2·9	60	0	5	0·19	−0·62	10·5	?	11	?
	Fort William ℌ	60	44	57·6	47·0	52·1	− 1·5	71	0	6	0·71	−0·76	25·7	?	28	?
1. SCOTLAND, E.	Nairn ℌ	65	39	59·7	43·4	51·2	− 2·6	64	0	2	0·17	−0·42	*	*	*	*
	Aberdeen ℌ	64	37	59·4	43·1	50·9	− 2·9	62	0	3	0·56	−0·12	39·1	+ 9·6	42	+10
	Braemar ℌ	61	33	56·4	39·2	47·4	− 3·2	50	8	1	0·01	−0·79	40·2†	?†	43†	?†
	Ochtertyre ℌ	70	35	64·0	42·4	52·8	− 1·0	76	0	0	—	−0·84	*	*	*	*
	Leith ℌ	65	42	62·7	45·7	53·8	− 1·9	83	0	2	0·07	−0·51	*	*	*	*
	Marchmont ℌ	62	35	59·1	42·9	50·6	− 2·5	60	0	3	0·25	−0·55	29·5	?	32	?
2. ENGLAND, N.E.	Alnwick Castle ℌ	62	39	58·7	46·7	52·4	− 1·2	73	0	4	0·56	−0·14	*	*	*	*
	Durham ℌ	67	36	60·6	43·4	51·6	− 3·2	67	0	4	0·46	−0·12	32·8	+ 5·3	36	+ 6
	Shields ℌ	66	39	60·3	43·3	51·4	− 3·8	66	0	2	0·31	−0·23	*	*	*	*
	Scarborough ℌ	65	41	60·8	45·7	52·9	− 2·9	76	0	1	0·02	−0·61	*	*	*	*
	York ℌ	66	38	61·3	44·3	52·4	− 3·8	73	0	4	0·17	−0·47	37·7	+10·2	41	+12
	Spurn Head ℌ	64	46	59·7	48·9	54·0	− 3·5	84	0	3	0·12	−0·33	*	*	*	*
3. ENGLAND, E.	Hillington ℌ	65	35	61·4	41·9	51·2	− 5·4	64	0	3	0·15	−0·47	32·3	+ 0·7	35	0
	Yarmouth ℌ	63	41	59·6	46·7	52·8	− 5·0	76	0	3	0·15	−0·48	*	*	*	*
	Geldeston ℌ	65	39	61·8	44·2	52·6	− 5·0	74	0	3	0·14	−0·46	34·9	− 2·5	38	− 3
	Cambridge ℌ	67	39	63·6	43·9	53·3	− 4·6	79	0	1	0·07	−0·45	32·1	− 5·3	35	− 6
	Rothamsted ℌ	64	38	61·1	44·2	52·2	− 4·4	71	0	2	0·12	−0·49	28·6	?	31	?
4. MIDLAND COUNTIES	Bawtry (Hesley Hall) ℌ	65	38	62·1	42·3	51·7	− 4·9	68	0	2	0·02	−0·52	*	*	*	*
	Loughborough ℌ	66	39	63·4	45·6	54·1	− 3·5	85	0	2	0·04	−0·58	*	*	*	*
	Stamford (Ketton Hall) ℌ	69	35	64·4	43·0	53·2	− 4·1	78	0	3	0·14	−0·54	*	*	*	*
	Cheadle ℌ	62	41	58·9	45·1	51·7	− 2·9	68	0	3	0·17	−0·64	*	*	*	*
	Churchstoke ℌ	68	38	61·0	43·3	51·7	− 3·2	68	0	3	0·05	−0·61	22·2	− 9·4	24	−10
	Hereford ℌ	68	39	63·6	41·3	53·5	− 3·6	81	0	2	0·04	−0·57	*	*	*	*
	Cirencester ℌ	61	40	59·7	44·9	51·9	− 3·9	69	0	3	0·13	−0·57	27·2	− 4·8	30	− 4
	Oxford ℌ	67	41	62·5	45·6	53·4	− 4·2	80	0	3	0·08	−0·49	28·9	− 5·6	32	− 5
5. ENGLAND, S.	London ℌ	65	39	62·4	44·3	52·9	− 6·3	76	0	2	0·08	−0·44	29·2†	− 0·5†	32†	− 1†
	North Foreland ℌ	64	45	60·0	49·3	54·4	− 3·4	87	0	2	0·05	?	*	*	*	*
	Strathfield Turgiss ℌ	65	39	62·5	43·5	52·5	− 5·3	74	0	3	0·06	−0·50	*	*	*	*
	Dungeness ℌ	66	40	63·3	44·4	53·4	− 6·0	80	0	2	0·02	−0·56	*	*	*	*
	Hastings (St. Leonards) ℌ	63	44	61·7	47·5	54·3	− 5·5	86	0	2	0·05	−0·55	38·1	− 1·2	42	− 1
	Southampton ℌ	66	43	64·2	46·5	54·9	− 4·2	90	0	2	0·14	−0·51	36·0	− 2·5	40	− 1
	Hurst Castle ℌ	66	46	63·7	48·9	55·9	− 3·6	97	0	2	0·04	−0·63	*	*	*	*
	Stowell ℌ	65	39	60·7	44·6	52·3	− 4·3	72	0	2	0·06	?	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ℌ	63	43	57·6	45·3	51·2	− 3·3	64	0	6	0·98	−0·46	*	*	*	*
	Glasgow ℌ	62	41	58·5	45·7	51·6	− 2·3	67	0	2	0·21	−0·70	37·8	+13·2	41	+16
	Ardrossan ℌ	61	45	59·0	49·1	53·8	− 1·8	83	0	2	0·18	−0·65	*	*	*	*
	Glenlee ℌ	66	34	61·2	43·5	51·9	− 1·6	69	0	4	0·10	−1·01	*	*	*	*
	Douglas (Isle of Man) ℌ	62	36	59·8	46·7	52·9	− 2·0	76	0	5	0·47	−0·40	36·0	+ 2·0	39	+ 2
7. ENGLAND, N.W.	Newton Reigny ℌ	63	37	59·9	44·4	51·8	− 1·6	69	0	4	0·29	−0·46	34·8	+ 4·6	38	+ 6
	Stonyhurst ℌ	60	42	57·5	46·3	51·6	− 3·9	67	0	3	0·90	−0·22	30·4	+ 0·4	33	0
	Blackpool ℌ	63	49	60·6	50·8	55·5	− 0·5	95	0	4	0·87	−0·02	27·5	− 2·5	30	− 3
	Manchester ℌ	64	42	59·5	45·1	52·0	− 3·9	70	0	4	0·76	−0·12	*	*	*	*
	Liverpool Obsy. (Bidston) ℌ	62	40	59·0	49·4	54·0	− 3·2	84	0	6	0·68	−0·02	*	*	*	*
	Llandudno ℌ	63	47	60·5	49·8	54·9	− 2·8	90	0	6	0·64	−0·04	23·0	− 6·5	25	− 6
	Holyhead ℌ	62	48	59·1	52·3	55·5	− 1·8	95	0	6	0·68	−0·02	*	*	*	*
8. ENGLAND S.W.	Llandovery ℌ	69	38	63·0	44·7	53·4	− 3·3	80	0	7	0·51	−0·57	*	*	*	*
	Pembroke ℌ	62	49	58·7	52·7	55·6	− 2·0	95	0	5	0·49	−0·26	15·2	−21·8	17	−23
	Arlington (N. Devon) ℌ	65	42	59·6	46·6	52·8	− 3·3	76	0	4	0·36	−0·74	*	*	*	*
	Cullompton ℌ	67	37	62·6	44·0	52·9	− 3·7	76	0	1	0·02	−0·72	24·6	−10·4	27	−11
	Falmouth ℌ	64	47	60·5	51·6	55·8	− 2·4	97	0	2	0·15	−0·86	27·4	−11·3	30	−12
	Plymouth ℌ															
	Prawle Point ℌ	65	45	61·1	48·6	54·6	− 3·5	88	0	3	0·12	−0·39	*	*	*	*
9. IRELAND, N.	Malin Head ℌ	61	47	57·9	49·6	53·6	− 1·1	81	0	6	0·44	?	*	*	*	*
	Londonderry ℌ	—	42	—	47·3	—	—	—	0	5	0·44	−0·45	*	*	*	*
	Edenfel (Omagh) ℌ	63	37	57·9	46·1	51·7	− 2·7	68	0	5	0·17	?	*	*	*	*
	Mullaghmore ℌ	61	47	58·7	50·9	54·6	− 1·7	88	0	6	0·63	−0·37	*	*	*	*
	Belmullet ℌ	60	48	58·9	50·0	54·2	− 3·4	85	0	6	1·71	?	*	*	*	*
	Markree Castle ℌ	64	44	59·3	46·0	52·3	− 2·0	72	0	6	0·43	−0·36	20·6	− 3·1	22	− 3
	Brookeborough ℌ	65	38	60·2	45·8	52·7	− 0·9	75	0	6	0·37	−0·48	*	*	*	*
	Armagh ℌ	65	41	61·3	46·4	53·5	− 1·1	81	0	6	0·52	−0·25	32·1	+ 7·1	35	+ 7
	Donaghadee ℌ	64	49	60·7	50·7	55·5	+ 0·7	95	0	5	0·28	−0·45	*	*	*	*
	Edgeworthstown ℌ	69	43	61·7	47·9	54·5	− 0·1	88	0	6	0·94	+0·19	*	*	*	*
10. IRELAND, S.	Dublin ℌ	64	45	60·8	49·6	54·	− 1·8	90	0	6	0·49	−0·09	29·1	− 2·9	32	− 3
	Parsonstown ℌ	66	44	61·3	47·9	54·2	− 1·2	85	0	6	1·12	+0·36	23·9	− 5·1	26	− 6
	Kilkenny ℌ	65	40	61·3	47·4	54·0	− 2·4	84	0	5	0·76	−0·01	*	*	*	*
	Waterford ℌ	68	42	63·3	48·2	55·4	− 1·8	94	0	5	0·39	−0·48	*	*	*	*
	Roche's Point ℌ	65	47	61·9	51·6	56·5	− 0·8	102	0	3	0·23	−0·75	*	*	*	*
	Valencia ℌ	62	51	60·4	52·9	56·5	− 0·9	102	0	6	1·54	+0·45	16·2	−15·0	18	−16
	Killarney ℌ	65	43	62·2	50·0	55·8	− 0·8	97	0		0·92	?	*	*	*	*
	Foynes ℌ	64	49	61·0	52·5	56·6	+ 0·4	102	0	6	1·32	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's) ℌ	63	49	61·0	52·7	56·7	− 2·4	103	0		0·33	−0·40	*	*	*	*
	Jersey ℌ	65	46	63·1	51·1	56·8	− 4·2	104	0	4	0·08	−0·60	38·9	− 7·1	43	− 7

Stations marked ℌ are in connection with the Royal Meteorological Society, and those marked ℌ with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

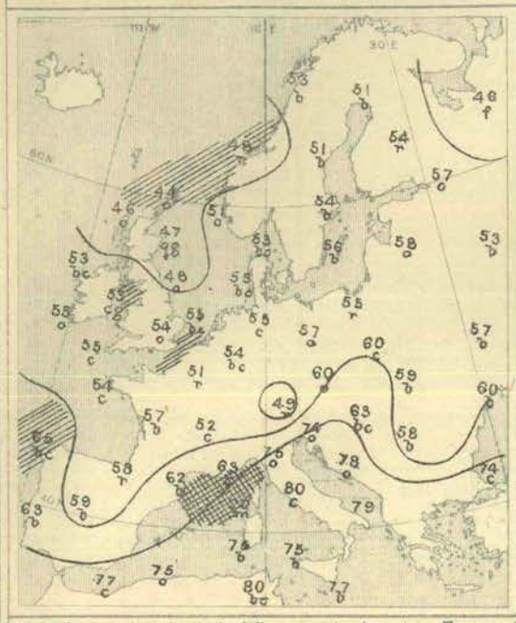
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory and the Meteorological Office, Victoria Street. For additional Reports of Sunshine see last page. NOTE.—It will be observed that Edenfel (Omagh) has been added to the list of stations in "Ireland, N."

III.—SUMMARY OF WEATHER OVER EUROPE.

Sunday, 4th September.

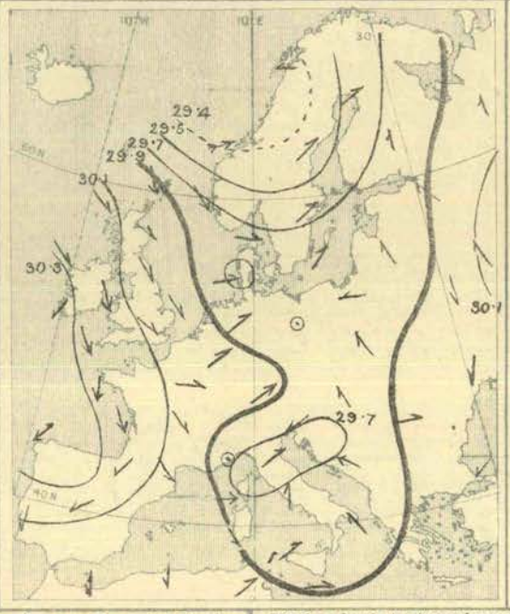
Temperature and Weather.

8 a.m.

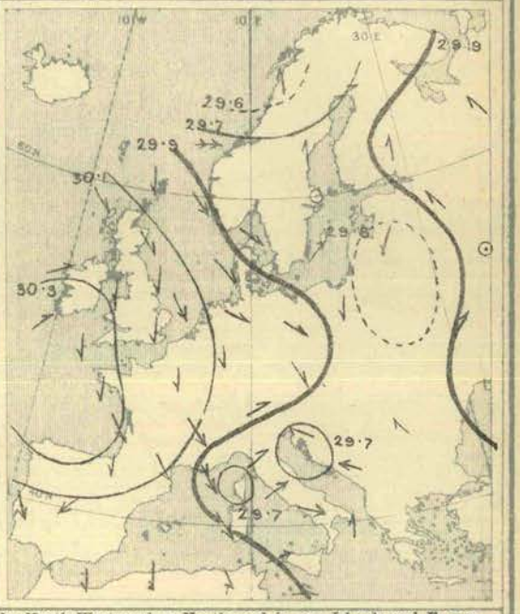


Barometer and Wind.

8 a.m.



6 p.m.



Weather varying greatly in different parts of western Europe; fine in some places, but cloudy in others, with passing showers at one or two of our own stations, and with rain over the Netherlands and the north-east of France; rain falling also over Bavaria and eastern Germany, but weather fine and bright in Austria, Spain, Algeria, and the southern parts of Russia and Italy. Some further improvement taking place over our Islands during day, but weather remaining changeable and showery at many of the Continental stations, with thunderstorms at Warsaw, Paris, Nice, and Monaco.

Temperature highest, 81° at Pesaro and Tunis, 80° at Rome and La Calle, and 79° at Brindisi; above 70° over Italy, the Adriatic, and the Mediterranean generally. Lowest, 44° at Sumburgh Head, 46° at Stornoway, 47° at Wick and Aberdeen, and 48° at Nairn and Christiansund; below 55° in nearly all parts of the United Kingdom, and also over central France. Daily maxima below 60° over a considerable portion of north-western Europe, but thermometer exceeding that point in the extreme south of our Islands, and also at Leith. Rising to 80° or more in Spain and the extreme south of France, and to 90° or more in the south of Italy.

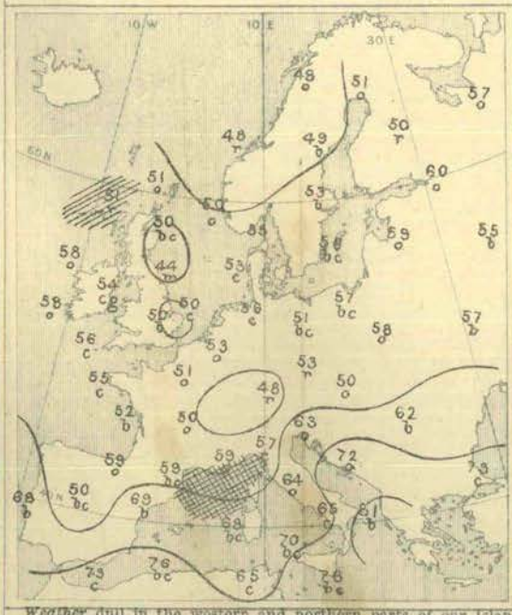
Wind moderate to strong from the North-Westward or Northward in our Islands and France, and from the North-Eastward in Spain; Westerly in Norway, with a gale at Christiansund; South-Westerly or Southerly over Sweden and Finland; light from the South-Eastward over Poland and the northern parts of Austria, Southerly in Italy, variable in Algeria. Wind subsequently falling light in many parts of our Islands, and backing to the South-Westward in the west of Ireland. Increasing in force over Italy and the south of France, and blowing a gale from North-West at Toulon.

Barometer highest, 30·3 ins. and upwards in an anticyclone spreading from the Atlantic over the south-west of Ireland and the north-west of Spain, 30·1 ins. and upwards in another system lying over central Russia. Lowest, 29·4 ins. and less in a depression over the north-west of Norway, 29·7 ins. and less in a secondary disturbance over Denmark and also in a well-marked system lying over northern Italy and the Gulf of Genoa. Anticyclone in west subsequently moving eastwards, but barometer beginning to fall again in extreme west in evening. Shallow depression forming over Poland and the Baltic Provinces.

Monday, 5th September.

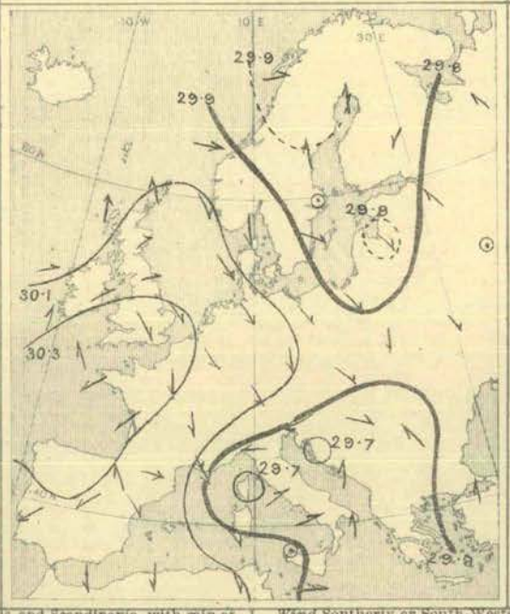
Temperature and Weather.

8 a.m.

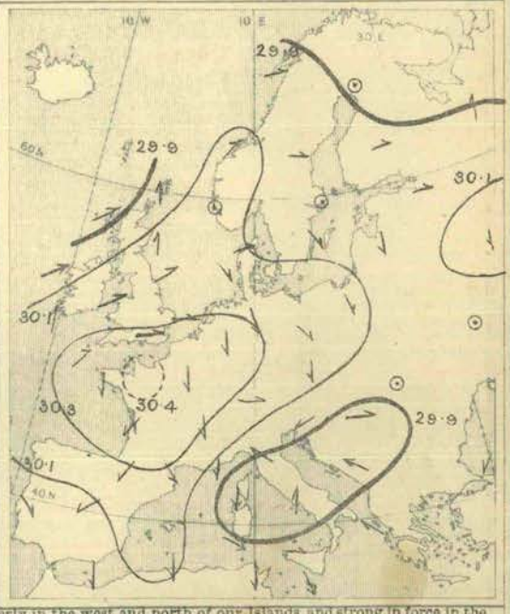


Barometer and Wind.

8 a.m.



6 p.m.



Weather dull in the western and northern parts of our Islands and Scandinavia, with rain at Stornoway and Christiansund; dull and rainy also in some parts of Germany, Austria, northern Italy, and central Algeria, but fine and bright in most other parts of Europe. Rain falling during day in Ireland and Scotland generally, the amount at Valencia Island being as much as 0·5 in. Heavy rain reported in Austria and Bavaria (0·9 in. at Vienna and Lésina, and 1·2 ins. at Munich).

Temperature highest, 81° at Brindisi, 78° at Malta, 76° at Algiers, and 73° at Oran, but below 70° at most of the Mediterranean stations, and considerably below 60° over central Spain. Lowest, (1) 44° at Shields, 45° at York, and 48° at Oxford; (2) 48° at Bodö and Christiansund; (3) 48° at Munich, and 50° at Vienna and Lyons. Rising during day to between 60° and 65° in most parts of the United Kingdom, but remaining below 55° in the north of Scotland; reaching 70° or more in the extreme south of France, and exceeding 80° in Spain, Italy, and Algeria, the highest European reading being 88° at Lisbon.

Wind Southerly or South-Westerly in the west and north of our Islands, and strong in force in the Hebrides; light from the North-Westward or Northward over France, Germany, and the eastern, central, and southern parts of England, and from the North-Eastward in Spain; light from the Southward in the northern parts of Sweden and Russia, South-Westerly or Southerly also over Italy and the Adriatic, Northerly or North-Westerly in Algeria. Subsequently increasing to a moderate gale from the South-Westward in the extreme west and north-west of our Islands, and backing to the South-Westward over the greater part of England; shifting to the Westward in Sweden and Finland.

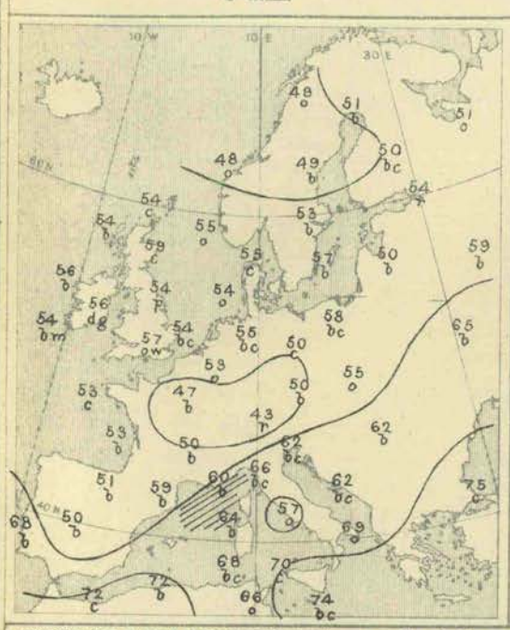
Barometer highest, 30·3 ins. and upwards in an anticyclone lying over England, the Channel, the Bay of Biscay, and the northern parts of France; 30·1 ins. and upwards over central Russia. Lowest, 29·7 ins. and less in two small depressions lying respectively over the Gulf of Genoa and the northern part of the Adriatic, 29·8 ins. and less in a large area lying over the north of Scandinavia, 30·0 ins. and less in a large but somewhat shallow disturbance off the north-west of Scotland. Last-mentioned system advancing closer to our shores later; anticyclone moving steadily eastwards.

Judd & Co. Lith. 63, Carter Lane, Doctors' Commons.

Tuesday, 6th September.

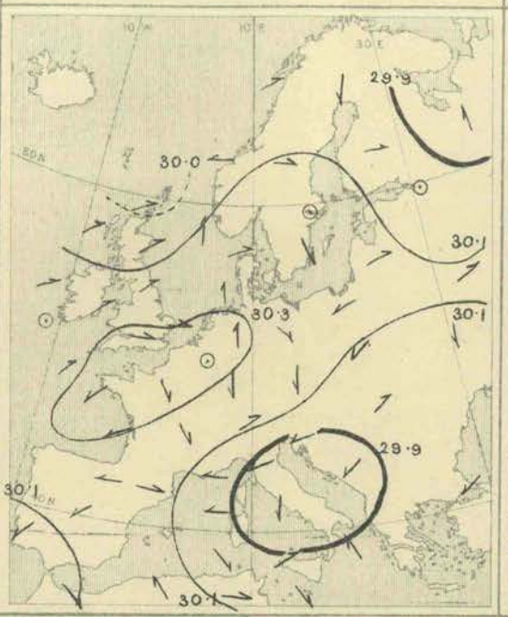
Temperature and Weather.

8 a.m.

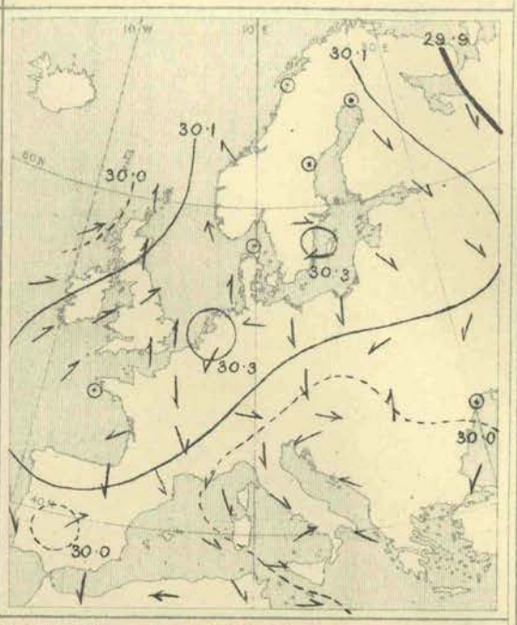


Barometer and Wind.

8 a.m.



6 p.m.



Weather dull at most of the English stations, as well as in the west of Norway and many parts of Germany and Austria, with rain at a few places; fine and bright in most other parts of Europe, but rainy at St. Petersburg. Rain falling during day at many of our own western and northern stations, the largest amount being 0·6 in. at Belmullet. Further heavy falls occurring in south Germany (1·0 in. at Munich).

Temperature in morning above 60° over Italy, eastern Europe, and the southern parts of France and Spain, but exceeding 70° over the central and southern parts of the Mediterranean only, the highest readings of all being 74° at Malta, and 72° at Oran and Algiers. Lowest, (1) 43° at Munich, and 47° at Paris; (2) 48° at Bodö and Christiansund, and 49° at Hernösand; (3) 49° at Cambridge; below 55° in many parts of central Europe. Rising during day to between 60° and 65° in most parts of the United Kingdom, and reaching 66° at Parsonstown; exceeding 70° over Spain and the south of France, and exceeding 80° over central Spain and the south of Italy, the highest reading of all being 84° at Madrid and Palermo.

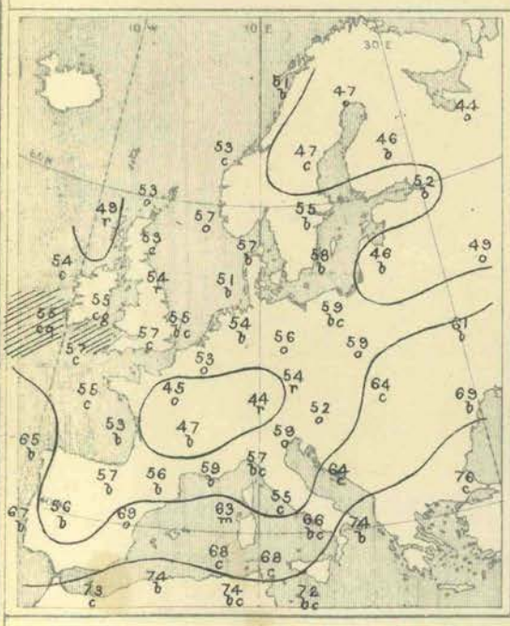
Wind light from the South-Westward over the greater part of the United Kingdom, but variable in the south of Ireland: Southerly on the eastern shores of the North Sea, light Westerly in Finland, and South-Westerly over central Russia, but variable in Sweden and the west of Norway, chiefly Northerly or North-Westerly in Germany, Easterly in the west and south of France, North-Easterly in Spain, variable in Italy and Algeria. No important change occurring over western Europe during day, but South-Westerly wind increasing to a strong breeze in the Hebrides.

Barometer highest, 30·3 ins. and upwards in an anticyclone lying over the Netherlands, the south of England, the Channel, and the northern parts of France. Lowest, 29·9 ins. and less in a large depression lying over Italy and the Adriatic, as well as in another system over northern Russia; 30·0 ins. and less in a shallow disturbance lying off the north of Scotland. Anticyclone subsequently travelling north-eastwards, and barometer falling slightly in all parts of western Europe. Depression over Italy gradually filling up.

Wednesday, 7th September.

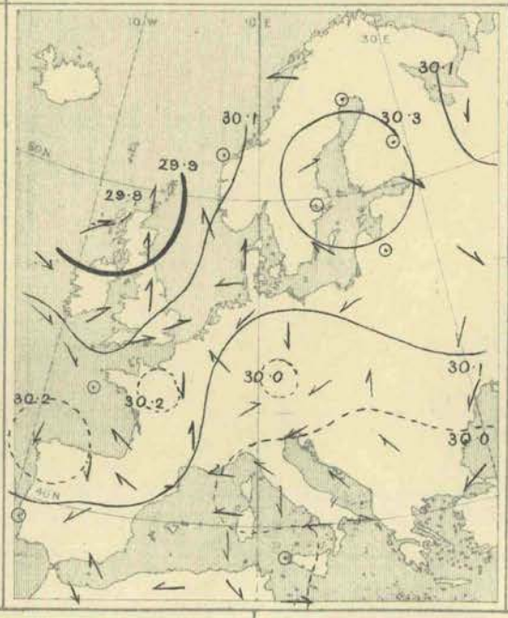
Temperature and Weather.

8 a.m.

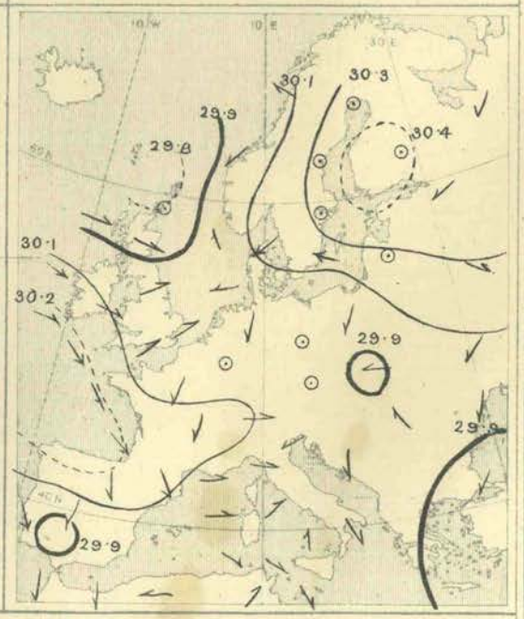


Barometer and Wind.

8 a.m.



6 p.m.



Weather fine and bright over Finland, Sweden, Denmark, the Baltic, and the greater part of southern Europe, and fair in the southern parts of the United Kingdom. Cloudy or overcast elsewhere, with rain at several of our more northern stations, as well as over the southern parts of Germany. Rain falling later in most parts of our Islands, but amounts mostly small, larger quantities measured, however, at some of the German and Belgian stations.

Temperature highest, 76° at Constantinople, 74° at Brindisi, Algiers, and La Calle, 73° at Oran, and 72° at Malta; above 65° at most of the Mediterranean stations, and also in the south of Russia. Lowest, (1) 44° at Archangel, 46° at Kuopio, and 47° at Haparanda and Hernösand: (2) 40° at Limoges, 42° at Le Mans, 44° at Munich, and 45° at Paris; (3) 47° at Malin Head, and 48° at Parsonstown. Daily maxima below 60° in nearly all the more northern parts of the United Kingdom, and very little above it in the south. Thermometer exceeding 70° in the south of France, and exceeding 80° in Italy and Algeria, the highest European readings being 89° at Madrid, and 84° at Lisbon.

Wind moderate from the Westward in the west of our Islands, but light from the Southward on our northern and eastern coasts, and strong from the same quarter in the south of Norway. Cyclonic circulation of light breezes reported over Germany; North-Westerly airs in central and northern Russia, variable winds in Italy, Algeria, and the south of France; light from the Eastward in the south-west of France, and from the North-Eastward in Spain. Subsequently veering to the Westward on many parts of our eastern coasts; no important change occurring elsewhere.

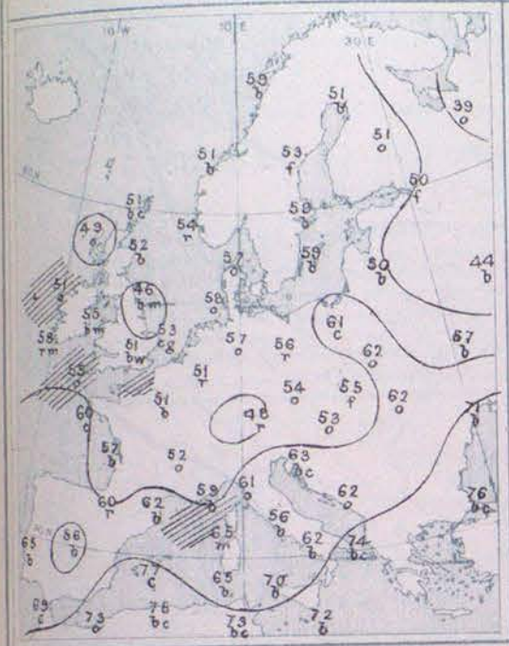
Barometer highest, 30·3 ins. and upwards in an anticyclone lying over Sweden and Finland, 30·2 ins. and less in two other systems, lying respectively over the northern parts of France and Spain. Lowest, 29·8 ins. and less in a shallow depression off the north-west of Scotland, 30·0 ins. and less in another shallow system lying over Bohemia. Depression in north subsequently travelling north-eastwards, but secondary disturbances appearing over England and the North Sea, German disturbance advancing slowly in a north-westerly direction.

Judd & Co LM, Lith 63, Carter Lane, Doctors' Commons.

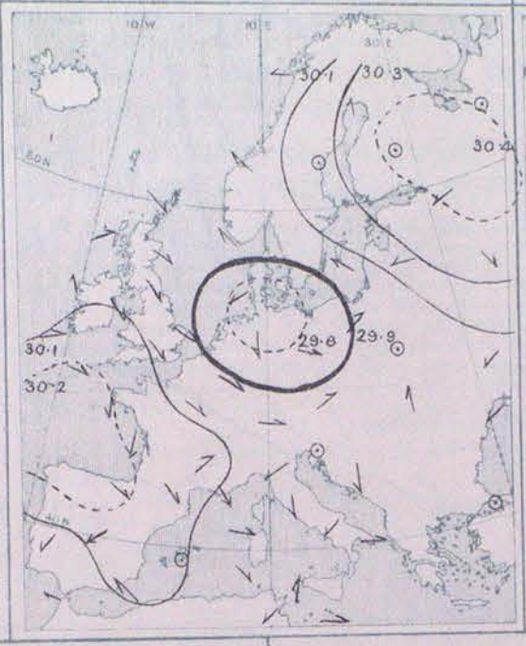
III.—SUMMARY OF WEATHER OVER EUROPE.

Thursday, 8th September.

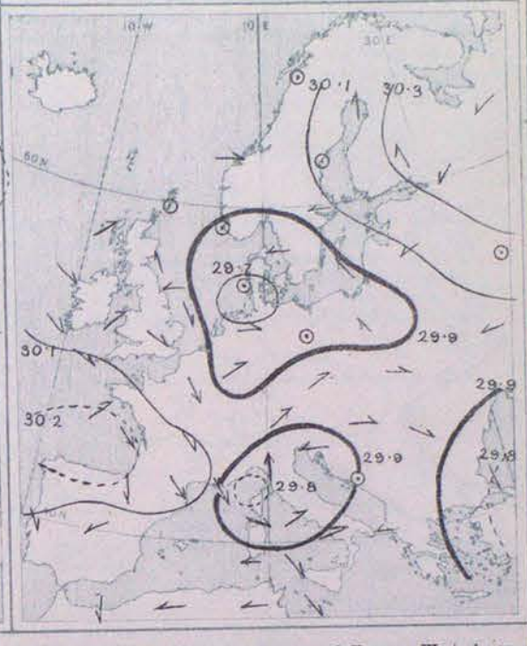
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather fine over Great Britain, France, and the greater part of southern and eastern Europe, as well as at most of the Swedish stations; dull in the more central countries, with rain over the Netherlands, and west and south of Germany; rainy also in the south of Ireland and the west of Norway. Rain falling later in all the more western parts of the United Kingdom and France; large quantities reported in Belgium (·2 ins. at Brussels). Thunderstorms occurring at Nice and Monaco, with 2·2 ins. of rain at the latter place.

Temperature in morning, highest, 77° at Palma, 75° at Algiers, 74° at Brindisi, and 73° at Oran, La Calle, and Constantinople; above 60° in many parts of southern and eastern Europe, as well as at some of the Baltic stations. Lowest, (1) 39° at Archangel, 44° at Moscow, and 45° at Ulcaborg; (2) 46° at Shields, 47° at York, and 48° at Wick; (3) 48° at Munich. Daily maxima over our Islands ranging in most cases between 58° and 63°; thermometer exceeding 70° in the south of France, and exceeding 80° in Sicily, Algeria, and some parts of the Spanish Peninsula.

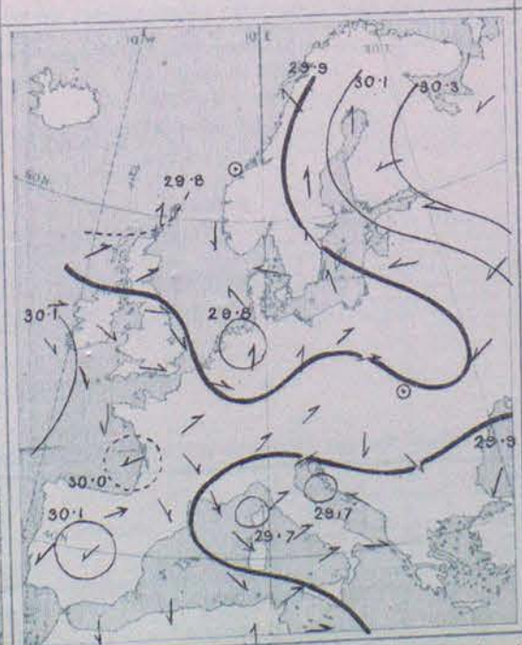
Wind light or moderate from the North-Westward over Great Britain and France; Westerly or South-Westerly in Germany; Easterly over Denmark, the Baltic, the Gulf of Finland, and the southern parts of Scandinavia; light from the South-Westward or Southward in Ireland and the west of Scotland; North-Easterly in most parts of southern and eastern Europe, and also in Algeria, but Westerly on the east coast of Italy. No important change over western Europe during day, but "mistral" blowing with considerable strength in the south of France.

Barometer highest, 30·4 ins. and upwards in a large anticyclone lying over northern Russia, 30·2 ins. and upwards in another system lying over the Bay of Biscay and its immediate neighbourhood. Lowest, 29·8 ins. and less in a well-marked, but somewhat shallow, depression lying over north Germany and the southern parts of Denmark, 30·0 ins. and less in a still shallower disturbance lying off the north-west of our Islands, and also in another system over the Gulf of Genoa. German depression subsequently moving very slowly in a north-westerly direction; local irregularities in pressure appearing over various parts of our western coasts.

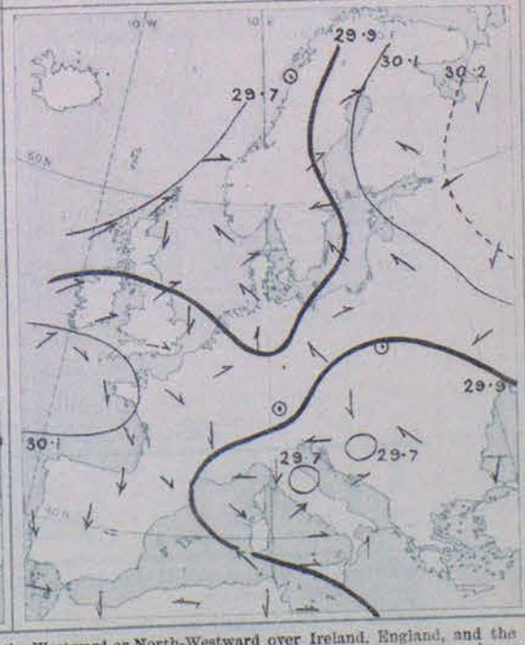
Friday, 9th September.

Temperature and Weather. 8 a.m.

Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather cloudy or overcast in most parts of western and central Europe, as well as over northern Italy, mist and rain reported at several of our own western stations, rain falling also at Skagen and Lesina; fine and bright on the east and south-east coasts of Great Britain, and also in Russia and the southern parts of France, Spain, and Italy. A little rain falling during day in several parts of Ireland and England, as well as in the north of Scotland; larger amounts reported at some of the Scandinavian and German stations.

Temperature in morning, highest, 75° at Malta and Constantinople, 74° at Brindisi, 72° at Oran, and 71° at Lisbon; above 65° at many of the Mediterranean and Adriatic stations, but below 55° in the Riviera, and as low as 49° at Toulon. Lowest, (1) 35° at Archangel, 49° at Moscow, and 47° at St. Petersburg; (2) 38° at Le Mans, and 45° at Paris and Munich; (3) 48° at York, Loughborough, and Oxford. Rising during day to between 60° and 65° in most parts of the United Kingdom, and reaching 67° at Cambridge; exceeding 70° in some parts of the south of France, and exceeding 80° in Spain and the south of Italy, the highest reading of all being 88° at Palermo.

Wind light to moderate from the Westward or North-Westward over Ireland, England, and the Netherlands, but South-Westerly in Scotland. Cyclonic circulations of light breezes shown respectively over Denmark and Germany, over Italy and the south of France, and over the west of France. Light from the Eastward in Russia, and moderate from the South-Eastward or Southward in Sweden, variable in Austria, North-Easterly in Spain, Northerly in Algeria. Subsequently backing to the South-Westward in Ireland. No important change occurring elsewhere.

Barometer highest, 30·3 ins. and upwards in a large anticyclone lying over northern Russia, 30·1 ins. and upwards in another system spreading over the south-west of Ireland from the Atlantic. Lowest, 29·7 ins. and less in a depression lying over Hanover, and also in other systems over the Gulf of Genoa and the northern part of the Adriatic; 29·8 ins. and less in yet another disturbance lying off the north of Scotland; 30·0 ins. and less in a very shallow system over the west of France. German depression subsequently filling up; anticyclone to the south-westward of our Islands spreading eastwards.

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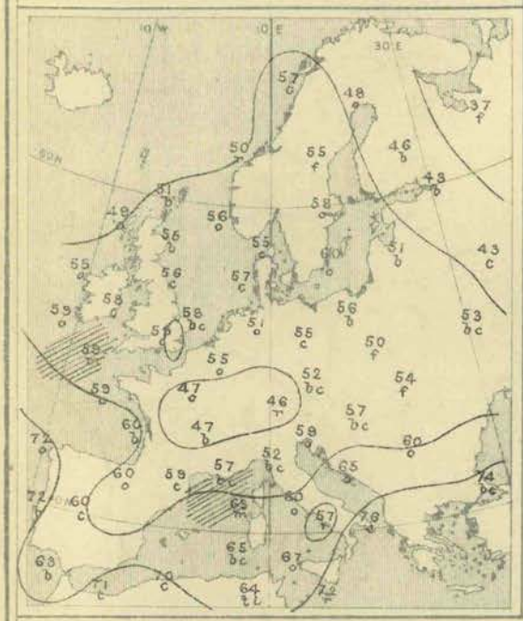
III.—SUMMARY OF WEATHER OVER EUROPE.

Saturday, 10th September.

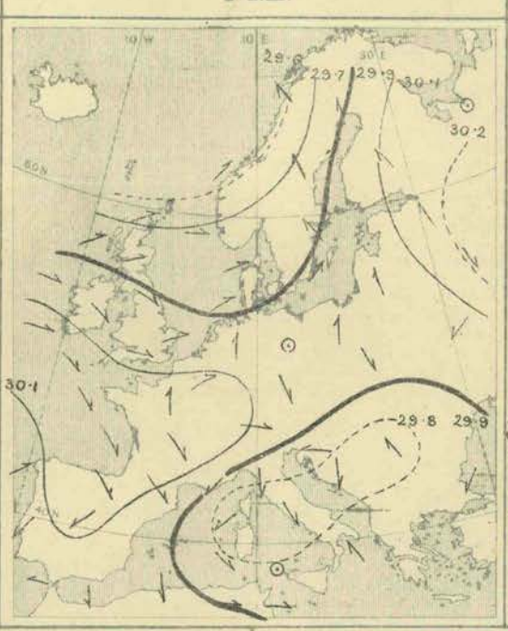
Temperature and Weather.

8 a.m.

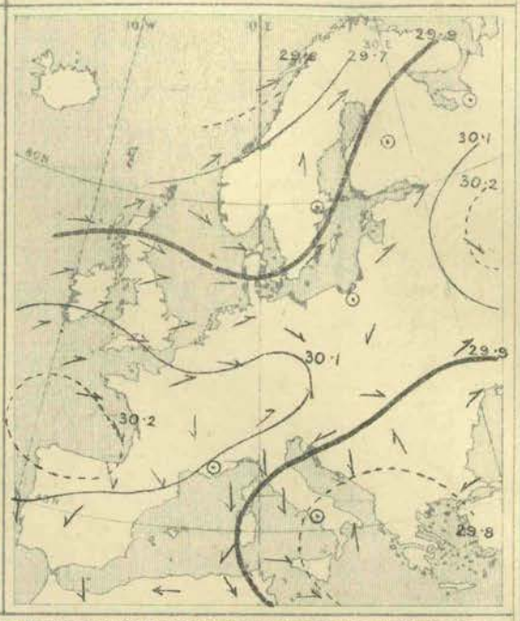


Barometer and Wind.

8 a.m.



6 p.m.



Weather cloudy or overcast in most parts of north-western Europe, with rain at one or two of the English stations; fine and bright in the south and east of Scotland, as well as in many parts of central, southern, and eastern Europe, but rain falling at some of the Austrian and Bavarian stations, and also at Naples and Malta. A little rain occurring later in most parts of Ireland, England, and Scandinavia, and larger quantities in the south of Italy. Thunderstorms reported at Cape Gris Nez, Toulon, Kharkov, and Tunis.

Temperature highest, 76° at Brindisi, 74° at Constantinople, 72° at Corunna, Lisbon, and Malta, and 71° at Oran; above 65° over the central and southern parts of the Mediterranean generally, and above 60° in the south-east of England. Lowest, (1) 37° at Archangel, 43° at Uleaborg, St. Petersburg, and Moscow, and 46° at Kuopio; (2) 46° at Munich, and 47° at Paris and Lyons. Rising during day to 65°, or a little more, over the eastern, central and southern parts of Great Britain, to 70° or more in the west and south of France, and the south of Italy, and to 80° or more in Spain and central Algeria; highest European readings of all, 90° at San Fernando, and 88° at Lisbon.

Wind light to moderate from the Westward or South-Westward over our Islands, the Netherlands and the North Sea, and from the Southward or South-Eastward over Finland, Sweden, and the north of Norway; light from the North-West in the west of France, and from North-East in Spain; variable over Italy, Austria, Algeria, and the south of Russia. Northerly or North-Westerly breezes setting in later over the central parts of the Mediterranean; no important change occurring elsewhere.

Barometer highest, 30·2 ins. and upwards in a large anticyclone lying over Russia, 30·1 ins. and upwards in another system lying over the Bay of Biscay, France, the north of Spain, and the extreme south-west of our Islands. Lowest, 29·6 ins. and less in a large shallow depression lying off the west of Norway, 29·8 ins. and less in another disturbance over Italy and the southern parts of Austria. Former depression subsequently moving north-eastwards, but latter passing southwards. Small shallow disturbance traversing our Islands in an easterly direction.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇛ = a heavy gale; ➤ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze: and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES

An anticyclone which lay to the south-westward of our Islands at the commencement of the week afterwards moved steadily in a north-easterly direction to Scandinavia and northern Russia, the progress of the system being attended by fair weather in most places. In Ireland and Scotland, however, where the conditions were affected by some depressions which skirted our north-western and northern coasts, rain fell at frequent intervals. On the 7th a second high pressure system appeared in the south-west, and the weather over the more central and southern parts of Europe became very unsettled, a well-defined depression being observed over Germany, and other disturbances over northern Italy and the extreme south of France. Towards the close of the week the anticyclone over northern Europe began to disperse, while the high pressure system off our south-west coasts spread eastwards. A new series of depressions now began to pass along our north-western and northern coasts on their way from the Atlantic to Scandinavia, and moderate breezes from the South-Westward or Westward were experienced in most parts of western Europe, with showers in the west and north of our Islands, but with fair weather in most other regions.

BRIGHT SUNSHINE Values for the Week in addition to those found on page 212.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	24·6	?	27	?	EASTBOURNE	36·0	?	40	?
OSWALDKIRK (Yorkshire)	35·6	?	39	?	TENBY	18·5 *	?	20 *	?
WORKSOP	27·3	− 0·5	30	0	NEWQUAY	19·5	?	21	?
THURCASTON (Leicestershire)	27·0	− 1·0	29	− 2	TORQUAY	28·5 *	?	31 *	?
MARGATE	30·5	?	34	?	ARLEY COTTAGE (County Cavan)	28·0	?	30	?
WESTBOURNE (Sussex)	31·4 *	?	34 *	?	GUERNSEY	27·6 *	?	31 *	?
BRIGHTON	35·7	?	39	?					

* The values at Westbourne, Tenby, Torquay and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.
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VOL. IX. No. 37.] *Third Series.* WEEK ENDING SATURDAY, 17TH SEPTEMBER, 1892. [*Price 6d.* [*Annual subscription, post paid, £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years' observations (1871-90). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the ten years 1881-90. RAINFALL.—*The Mean amounts* are those for the corresponding periods in the twenty-five years 1866-90, but the *Mean numbers of Rainy Days* are those for the ten years 1881-90, only. BRIGHT SUNSHINE.—*The Mean values* employed are those for the corresponding periods in the ten years 1881-90.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 218.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1892. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	62	36	55·9	44·8	50·1	1 below.	57	− 9	0	− 1	1474	− 34	754	+212
	1. SCOTLAND, EAST	67	36	53·1	45·7	51·6	1 below.	67	−11	0	− 1	1733	−205	810	+241
	2. ENGLAND, N.E.	67	38	61·6	47·6	54·2	0 (average)	85	− 2	0	− 1	1939	−124	684	+186
	3. ENGLAND, EAST	73	39	66·2	47·9	56·6	1 above.	102	+ 3	0	0	2282	−115	771	+210
	4. MIDLAND COUNTIES	71	35	64·3	45·9	54·7	0 (average)	89	− 5	0	− 1	2271	− 91	802	+249
	5. ENGLAND, SOUTH	71	39	65·2	51·2	57·8	0 (average)	111	+ 3	0	0	2488	− 94	554	+138
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	59	38	57·5	47·1	52·1	1 below.	71	−10	0	0	1871	−111	610	+193
	7. ENGLAND, N.W.	66	40	59·8	50·0	54·7	0 (average)	89	− 3	0	0	2079	− 72	579	+165
	8. ENGLAND, S.W.	68	33	61·5	50·0	55·5	1 below.	95	− 5	0	0	2348	− 34	433	+117
	9. IRELAND, NORTH	66	34	58·4	47·8	52·8	1 below.	76	− 9	0	0	2028	− 92	484	+122
	10. IRELAND, SOUTH	68	31	60·8	48·8	54·4	1 below.	87	− 6	0	0	2367	− 19	410	+132
	— CHANNEL ISLANDS	72	45	64·6	54·2	59·2	0 (average)	120	+ 3	0	0	2712	+ 71	164	+ 42

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 218.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1892. Number of Rainy Days.	Difference from Mean.	Total Fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1892. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of In.	10ths of In.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	7	25	15 more.	178	+11	32·2	+ 0·4	9	−11	10	−13	970	0	28	0
	1. SCOTLAND, EAST	4	5	2 less.	138	0	18·8	− 2·8	17	− 3	19	− 3	1130	+ 2	32	0
	2. ENGLAND, N.E.	2	2	4 less.	133	+ 6	17·0	− 0·8	26	0	29	0	1087	+ 57	31	+ 1
	3. ENGLAND, EAST	0	–	6 less.	122	− 2	16·2	− 1·4	40	+ 7	46	+10	1305	+ 60	38	+ 1
	4. MIDLAND COUNTIES	2	1	6 less.	118	− 4	15·3	− 4·2	32	+ 1	36	+ 4	1218	+105	35	+ 3
	5. ENGLAND, SOUTH	2	less than ½	6 less.	104	−14	13·6	− 4·8	41	+ 4	46	+ 7	1424	+215	42	+ 6
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	6	14	4 more.	139	− 7	30·5	− 2·5	23	− 5	26	− 5	1204	+ 88	35	+ 3
	7. ENGLAND, N.W.	5	7	2 less.	139	+ 6	24·0	+ 1·2	24	− 4	27	− 5	1198	+ 94	35	+ 3
	8. ENGLAND, S.W.	4	2	8 less.	125	−11	17·9	− 8·6	35	+ 2	40	+ 4	1416	+100	42	+ 3
	9. IRELAND, NORTH	6	11	2 more.	153	− 5	25·9	+ 1·0	19	− 6	21	− 7	1069	+ 54	31	+ 2
	10. IRELAND, SOUTH	4	4	4 less.	135	− 9	26·5	−0·1	28	− 2	32	− 1	1165	− 14	34	0
	— CHANNEL ISLANDS	2	1	7 less.	123	- 20	17·5	− 3·5	53	+13	61	+16	1686	+151	50	+ 5

Bright Sunshine.—For several of the stations there are no "mean" values available, and the "difference from the mean" in some of the districts is consequently that of only a few of the stations.

General Remarks.

Weather was fair and dry over the greater part of the Kingdom, but dull, unsettled, and very rainy over the northern and western portions of Ireland and Scotland.

Temperature was again below the mean in the north and west, but just equalled it in many parts of England, and slightly exceeded it in England E. The highest of the maxima were registered on rather irregular dates, and ranged from between 70° and 73° over the southern, eastern, and midland districts, to 62° in Scotland N., and 59° in Scotland W. The lowest of the minima were recorded at most stations during the middle or latter part of the week, when the thermometer fell to between 33° and 40° over England, between 36° and 38° in Scotland, and to between 31° and 34° in Ireland, but only to 45° in the Channel Islands.

Rainfall exceeded the mean in Scotland N. and W., and also in Ireland N.; in Scotland N. the excess was very large. In all other parts of the Kingdom there was again a deficit, and in most of the English districts the fall was very slight.

Bright Sunshine was very little prevalent in the north and west, but a fair amount was recorded in most parts of England. The percentage of possible duration ranged from 61 in the Channel Islands, to between 40 and 46 over eastern, southern, and south-western England, and to only 19 in Scotland E., and 10 in Scotland N.

Barometer and Wind.—During the whole of this period pressure was highest to the southward or south-eastward of our Islands, while depressions, moving north-eastwards, passed either over or outside our extreme north-western and northern coasts. Southerly to South-Westerly and Westerly winds consequently prevailed very generally, and although mostly of moderate force they increased considerably at times in the west and north-west. On the evening of the 15th, and during the 16th, they attained the force of a strong gale on many parts of our north-western and northern coasts.

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II.—DATA from which the SUMMARY on page 217 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°				Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	55	41	53·9	45·4	49·5	− 1·0	53	0	7	1·71	+0·94	*	*	*	*
	Stornoway	57	40	55·6	45·9	50·5	− 0·5	60	0	7	1·15	+0·18	13·5	−11·5	15	−13
	Wick	60	40	56·6	45·9	51·0	− 0·6	63	0	5	0·86	+0·26	*	*	*	*
	Lairg Ⓢ	62	36	58·2	42·6	50·0	− 1·1	56	0	6	0·82	+0·10	*	*	*	*
	Glencarron Ⓢ	59	36	55·3	43·1	48·9	− 1·8	48	0	7	4·77	+3·18	*	*	*	*
	Fort Augustus Ⓢ	58	39	55·7	43·6	49·4	− 3·0	52	0	7	2·28	+1·40	5·1	?	6	?
	Fort William Ⓢ	60	41	56·0	47·3	51·4	− 1·4	66	0	7	5·90	+4·35	8·4	?	9	?
1. SCOTLAND, E.	Nairn	63	39	59·1	45·0	51·7	− 1·1	68	0	3	0·79	+0·19	*	*	*	*
	Aberdeen	61	40	58·6	46·1	52·1	− 0·7	71	0	5	0·49	−0·20	24·5	− 2·5	28	− 3
	Braemar Ⓢ	55	36	52·5	43·0	47·5	− 1·9	39	0	5	0·67	−0·14	6·8†	?†	8†	?†
	Ochtertyre Ⓢ	61	39	58·1	46 3	51·9	− 0·8	69	0	6	0.82	−0·03	*	*	*	*
	Leith Ⓢ	65	41	61·1	49·1	54·8	+ 0·3	90	0	3	0·03	−0·52	*	*	*	*
	Marchmont Ⓢ	67	38	59·1	44·7	51·6	− 0·5	67	0	2	0·10	−0·69	18·5	?	21	?
2. ENGLAND, N.E.	Alnwick Castle	65	42	59·9	47·6	53·3	+ 0·8	79	0	3	0·17	−0·52	*	*	*	*
	Durham	67	40	61·3	46·8	53·7	0·0	82	0	3	0·21	−0·37	27·4	+ 2·4	31	+ 3
	Shields	67	38	61·1	45·1	52·7	− 1·4	75	0	1	0·28	−0·30	*	*	*	*
	Scarborough Ⓐ	66	43	61·6	48.0	54·5	− 0·3	88	0	1	0·15	−0·50	*	*	*	*
	York	67	42	62·9	47·4	54·8	− 0·1	90	0	1	0·14	−0·50	25·1	+ 0·2	29	+ 1
	Spurn Head	67	47	62·6	50·4	56·2	− 0·2	99	0	1	0·01	−0·47	*	*	*	*
3. ENGLAND, E.	Hillington Ⓐ	72	39	66·0	45·7	55·4	− 0·1	94	0	0	—	−0·64	34·5	+ 5·7	39	+ 6
	Yarmouth	70	47	64·9	51·3	57·8	+ 1·2	111	0	0	—	−0·69	*	*	*	*
	Geldeston	72	40	66·9	47·9	56·9	+ 0·4	104	0	0	—	−0·60	44·0	+ 9·0	50	+10
	Cambridge	73	41	68·4	46·9	57·1	+ 0·5	106	0	0	—	−0·52	42·0	+10·2	48	+12
	Rothamsted	69	41	64·9	47·6	55·8	+ 0·4	97	0	2	0·02	−0·61	38·4	?	44	?
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	68	37	63·9	43·1	53·0	− 2·3	77	0	2	0 05	−0·53	*	*	*	*
	Loughborough	71	42	65·9	47·6	56·3	+ 0·2	100	0	3	0·10	−0·54	*	*	*	*
	Stamford (Ketton Hall)	71	39	66·3	45·6	55·5	− 0·3	95	0	0	—	−0·70	*	*	*	*
	Cheadle Ⓐ	66	39	61·6	45·5	53·2	− 0·4	78	0	2	0.45	−0·33	*	*	*	*
	Churchstoke Ⓐ	68	40	63·4	46·0	54·3	+ 0·7	86	0	3	0·06	−0·59	32·7	+ 3·4	37	+ 4
	Hereford Ⓐ	69	37	64·8	48·0	56·0	+ 0·4	98	0	2	0·06	−0·58	*	*	*	*
	Cirencester	66	35	63·0	43·1	52·6	− 2·0	74	0	1	0·02	−0·72	32 1	+ 3·8	36	+ 4
	Oxford	69	41	65·3	48·6	56·6	+ 0·2	102	0	0	—	−0·62	41·5	+10·1	47	+11
5. ENGLAND, S.	London	70	44	66·7	51·3	58·6	+ 1·0	116	0	1	0·02	−0·53	34·8†	+ 8·3†	40†	+10†
	North Foreland	69	50	64·3	54·4	59·1	+ 1·5	120	0	1	0·02	?	*	*	*	*
	Strathfield Turgiss Ⓐ	69	40	65·8	46·9	55·9	− 0·5	97	0	3	0·08	−0·52	*	*	*	*
	Dungeness	67	46	65·6	53·7	59·4	+ 1·4	122	0	1	0·01	−0·61	*	*	*	*
	Hastings (St. Leonards)	71	47	65·7	52·0	58·5	0·0	116	0	2	0·02	−0·62	43·4	+ 6·2	49	+ 7
	Southampton	69	44	66·5	49·9	57·8	0·0	111	0	1	0·01	−0·69	36·8	+ 1·6	42	+ 3
	Hurst Castle	65	47	64·1	52·9	58·2	+ 0·1	113	0	1	0·01	−0·69	*	*	*	*
	Stowell Ⓐ	65	39	62·5	48·1	55 0	− 0·3	91	0	4	0·06	?	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	59	42	57·3	46·0	51·4	− 1·9	66	0	7	3·56	+1·99	*	*	*	*
	Glasgow	59	41	57·1	47·5	52·1	− 0·6	71	0	5	0·96	+0·04	15·2	− 7·6	17	− 8
	Ardrossan	58	47	56·9	51·7	54·2	− 0·3	85	0	5	0·70	−0·15	*	*	*	*
	Glenlee Ⓢ	59	38	58·1	43·2	50·3	− 2·1	58	0	7	1·07	−0·12	*	*	*	*
	Douglas (Isle of Man)	59	41	58·1	47·1	52·3	− 1·7	72	0	5	0·89	+0·01	30·2	− 1·8	34	− 2
7. ENGLAND, N.W.	Newton Reigny	63	40	58·2	47·7	52·7	− 0·1	75	0	5	0·88	+0·10	20·5	− 8·5	23	−10
	Stonyhurst	64	44	58·7	48·7	53·5	− 0·8	81	0	5	0·53	−0·64	23·1	− 5·1	26	− 6
	Blackpool Ⓐ	64	49	60·3	51·4	55·6	+ 0·9	95	0	4	0·55	−0·33	22·9	− 5·1	26	− 6
	Manchester	65	43	60·8	47·0	53·6	− 1·1	81	0	5	0·49	−0·41	*	*	*	*
	Liverpool Obsy. (Bidston)	66	49	60·9	52·1	56·3	+ 0·4	100	0	5	0·47	−0·30	*	*	*	*
	Llandudno Ⓐ	65	46	60·5	51·2	55·6	− 1·1	95	0	4	0·98	+0·26	27·7	+ 1·9	32	+ 3
	Holyhead	61	47	59·3	51·7	55·3	− 1·3	93	0	4	1·01	+0·27	*	*	*	*
8. ENGLAND, S.W.	Llandovery	65	33	63·1	45·9	54·1	− 1·5	85	0	5	0·27	−0·84	*	*	*	*
	Pembroke	61	48	59·1	54·0	56·4	− 0·2	101	0	3	0·26	−0·56	32·5	− 1·3	37	− 1
	Arlington (N. Devon)	62	39	60·7	48·3	54·2	− 1·0	85	0	4	0·24	−0·88	*	*	*	*
	Cullompton Ⓐ	68	37	64·1	47·3	55·3	− 0·3	93	0	3	0·06	−0·74	33·9	+ 2·1	39	+ 3
	Falmouth	64	46	61·2	51·8	56·3	− 1·0	100	0	2	0·04	−1·08	43·0	+ 8·5	49	+10
	Plymouth															
	Prawle Point	62	45	60·7	52·4	56·4	− 0·7	101	0	5	0·17	−0·41	*	*	*	*
9. IRELAND, N.	Malin Head	58	47	56·4	50·1	53·1	− 1·5	78	0	7	1·17	?	*	*	*	*
	Londonderry	—	42	—	46·9	—	—	—	—	7	0·58	−0·32	*	*	*	*
	Edenfel (Omagh)	60	39	57·4	47·1	52·0	− 1·2	70	0	5	1·07	?	*	*	*	*
	Mullaghmore	66	45	59·4	50·3	54·6	− 1·0	88	0	6	1·12	−0·05	*	*	*	*
	Belmullet	59	49	57·6	51·0	54·1	− 1·7	85	0	6	2·99	?	*	*	*	*
	Markree Castle	61	34	58·3	45·7	51·7	− 1·4	68	0	7	1·16	+0·40	16·4	− 5·6	19	− 6
	Brookeborough	61	37	57·6	45·8	51·4	− 1·0	66	0	5	1·32	+0·43	*	*	*	*
	Armagh	63	38	59·9	46·1	52·7	− 0·7	75	0	5	0·42	−0·28	18·7	− 5·5	21	− 7
	Donaghadee	62	44	59·9	49·4	54·4	+ 0·1	87	0	6	0·12	−0·59	*	*	*	*
	Edgeworthstown	61	35	58·9	45·0	51·6	− 1·7	67	0	6	0·59	−0·16	*	*	*	*
10. IRELAND, S.	Dublin	66	41	61·6	49·4	55·2	− 0·2	92	0	3	0·33	−0·24	29·6	− 0·6	34	0
	Parsonstown	63	36	60·0	47·7	53·6	− 0·7	81	0	3	0·39	−0·36	22·0	− 5·5	25	− 6
	Kilkenny	63	31	61·0	46·7	53·5	− 1·9	81	0	4	0·39	−0·33	*	*	*	*
	Waterford	65	34	61·9	47·2	54·2	− 2·0	85	0	3	0·43	−0·40	*	*	*	*
	Roche's Point	64	43	61·0	50·7	55·6	− 0·7	95	0	3	0·28	−0·67	*	*	*	*
	Valencia	62	40	59·7	50·4	54·8	− 1·8	90	0	6	0·52	−0·55	31·5	+ 2·7	36	+ 3
	Killarney	66	38	60·9	47·7	54·0	− 1·6	84	0	4	0·77	?	*	*	*	*
	Foynes	67	43	? 60·6	? 48·6	? 54·3	? − 0·7	? 86	0	? 6	0.26	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	65	48	62·3	53·9	57·9	− 0·3	111	0	2	0·15	−0·65	*	*	*	*
	Jersey	72	45	66·9	54·4	60·4	+ 0·4	129	0	2	0·02	−0·68	55·0	+13·4	63	+13

Stations marked Ⓐ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

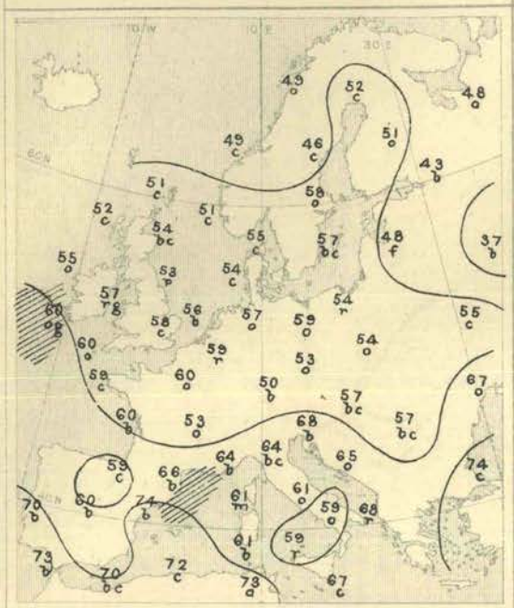
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory and the Meteorological Office, Victoria Street. For additional Reports of Sunshine see last page.

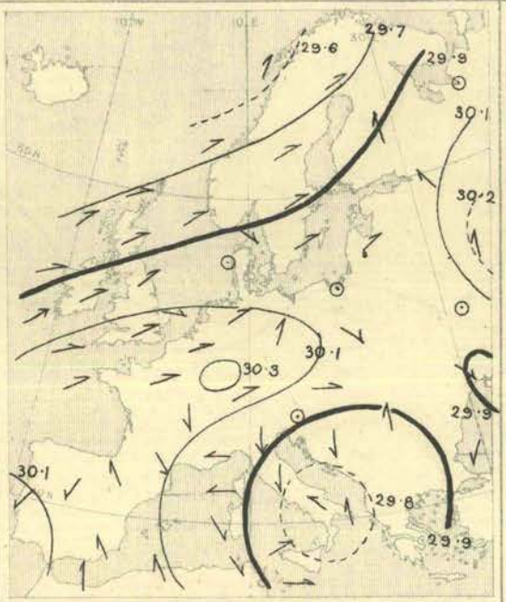
III.—SUMMARY OF WEATHER OVER EUROPE.

Sunday, 11th September.

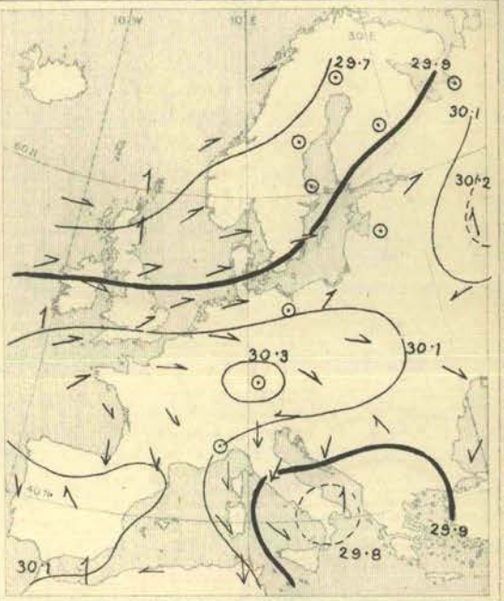
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather cloudy or overcast in most parts of north-western, northern, and central Europe, with rain at some of our western and south-western stations, as well as at Brussels, Münster, and Neufahrwasser; fog reported at Riga and Memel. Dull and rainy in the south of Italy, but fine in most other parts of southern and eastern Europe, as well as over central Russia and the east of Scotland. Rain during day in all the more western and northern parts of the United Kingdom, on the eastern shores of the North Sea, and in Finland, but amounts slight. Local falls over south-eastern Europe also, heavy falls in south of Italy.

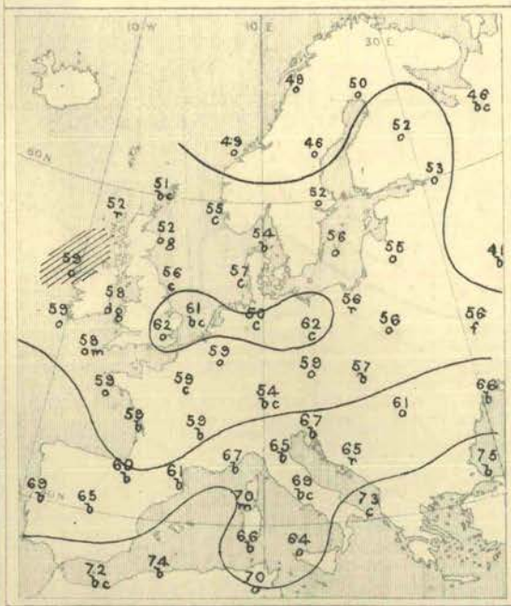
Temperature highest, 74° at Barcelona and Constantinople, 73° at San Fernando and La Calle, and 72° at Algiers; above 65° at several of the Mediterranean and Adriatic stations, as well as in the south of Russia, and reaching 60° in the extreme south-west of our Islands. Lowest, (1) 37° at Moscow, 43° at St. Petersburg, and 46° at Hernösand; (2) 50° at Munich, and 53° at Lyons. Rising during day to 65°, or a little above, at most of our own southern stations, and to between 70° and 80° in many parts of France and in Italy; reaching 81° at Sicié, and 84° at Perpignan.

Wind light or moderate from West and South-West over our Islands, the North Sea, Scandinavia, and Germany, and from the Southward over Finland and central Russia, but Westerly over Denmark, and also in Austria; Northerly over the northern parts of Italy, but Southerly in the south of that country; chiefly Easterly in Spain and the south-west of France, South-Easterly or Southerly in Algeria. Subsequently veering to the Westward in the west and north of the United Kingdom, and blowing strongly from North-East over Italy.

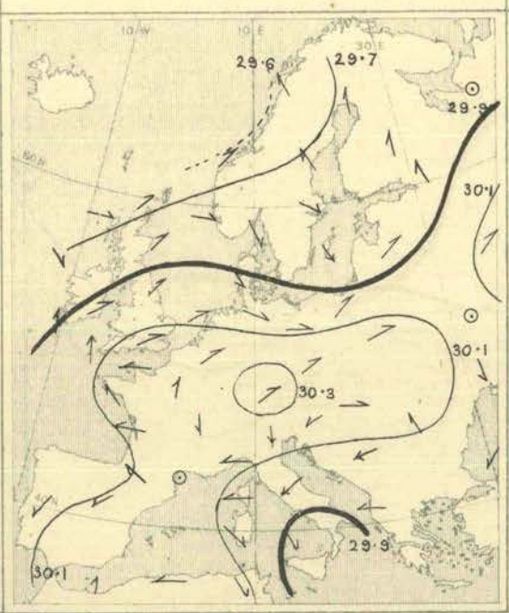
Barometer highest, 30·2 ins. and upwards in an anticyclone lying over the Bay of Biscay, Spain, France, and south Germany, as well as in another system lying over central Russia. Lowest, 29·6 ins. and less in a depression lying off the north-west of Norway, 29·3 ins. and less in another system lying over the south of Italy, 29·9 ins. and less in a third lying over the Crimea. Shallow disturbances passing eastwards across our Islands during day, and barometer falling in most parts of western Europe; anticyclone over France moving eastwards.

Monday, 12th September.

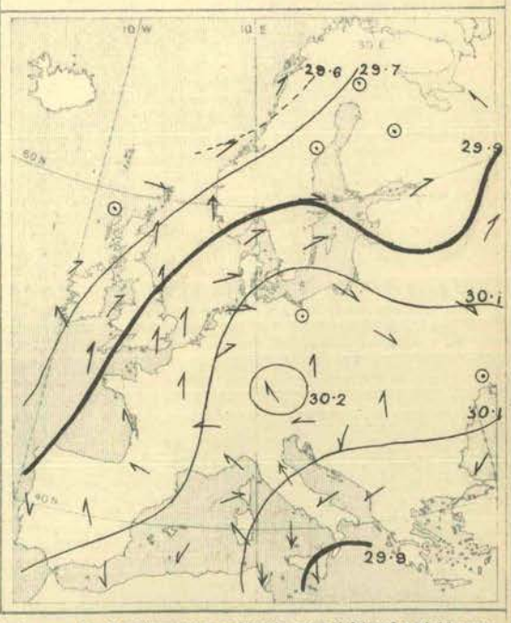
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the Mediterranean and southern Europe, as well as over the greater part of France, western and southern Germany; cloudy and unsettled over the north-western and northern countries, with rain over the western and northern parts of the British Islands, and at many of the Baltic stations. Heavy rain later in the north-west and north of Ireland, and a considerable quantity in some parts of Scotland; slight rain in the southern half of Ireland, in Norway, Finland, and northern Russia, but weather continuing fair in the south and east of our Islands and Europe.

Temperature not changing much. Morning readings ranging between 65° and 75° at the Mediterranean stations, and exceeding 60° in some parts of France, Germany, and the south-east of England; lower elsewhere, but exceeding 50° in all parts of the United Kingdom, and over the North Sea and Baltic. Lowest of all, 41° at Moscow, 46° at Archangel and Hernösand, 48° to 50° in the north and north-west of Scandinavia. Rising later to 70° and more at Loughborough, Cambridge, and Jersey, to 77° at Paris, 79° at Nice, 88° at Rochefort, and 91° at Biarritz.

Wind mainly Easterly to Northerly over the Mediterranean and Spain, very light and variable over eastern and central Europe, Southerly and South-Westerly over the British Islands, Westerly to North-Westerly on the eastern shores of the North Sea, Southerly over Finland, South-Easterly over the northern parts of Sweden and Norway. Becoming still more Southerly over the British Islands later, but not increasing materially in force.

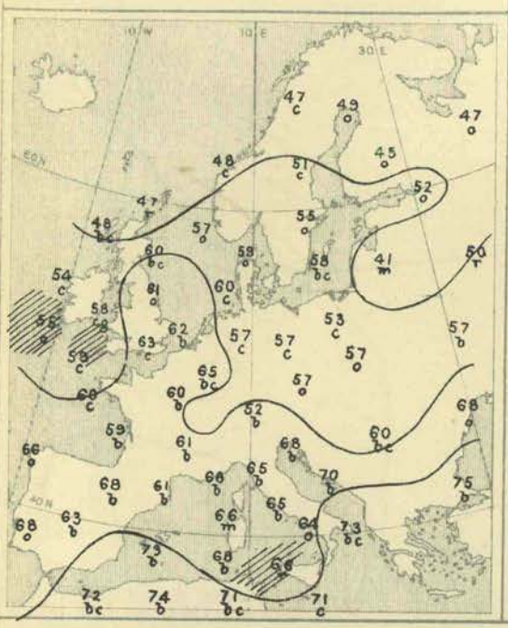
Barometer highest, 30·3 ins. and more over the western, central, and eastern parts of the Continent. Lowest, about 29·6 ins. off the north-west of Norway, and below 29·7 ins. off the north-west of Ireland; gradients moderate over the United Kingdom and North Sea, slight over the Baltic and Scandinavia. Falling over the United Kingdom later, but not rapidly; rising slightly over Scandinavia.

Judd & Co Ltd. Lith. 63, Carter Lane, Doctors' Commons.

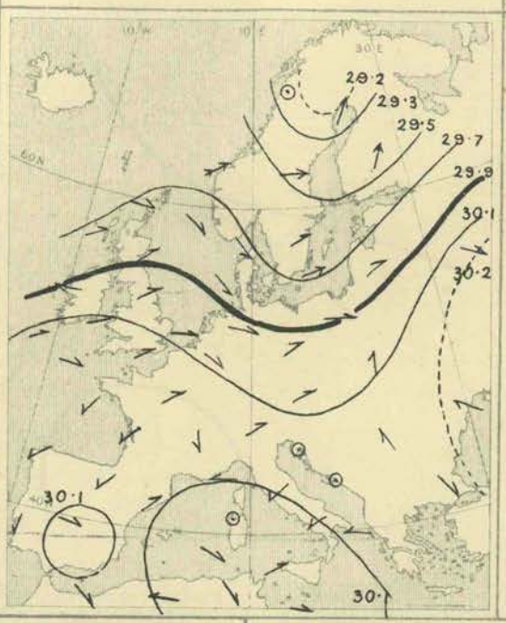
III.—SUMMARY OF WEATHER OVER EUROPE.

Tuesday, 13th September.

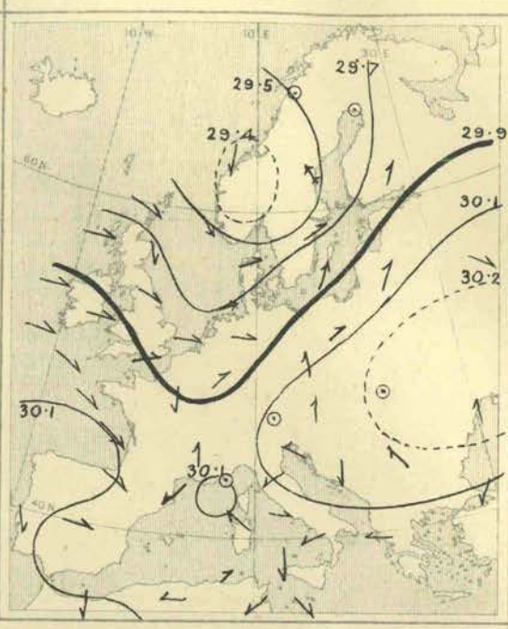
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fine and bright over southern and western Europe, as well as in some parts of southern Russia; cloudy, more or less, over all the north-western and northern countries, with rain in Scotland and at Moscow, and slight drizzle at some of the Channel stations and at Lorient. Rain falling later in considerable quantity over Scandinavia, and in smaller amounts at our northern and western stations. Local showers in France and Belgium (heavy at Charleville) and some fall at Moscow.

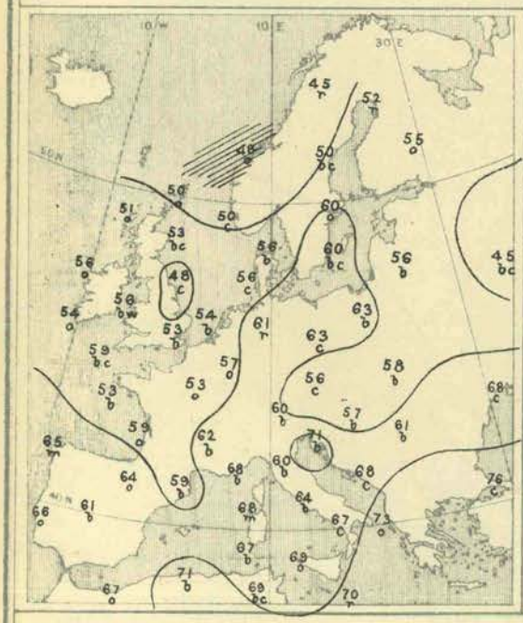
Temperature risen somewhat at many of the northern and western stations. Morning readings still ranging from 65° to 75° on the Mediterranean coasts, and exceeding 60° over the greater part of England, France, and south-eastern Europe; lower elsewhere. Lowest of all, 44° at Ulcaborg, 47° at Archangel, Bodö, and Sumburgh Head, and 48° at Stornoway and Christiansund, and 49° at Nairn. Rising during day to nearly 70° over many parts of England (73° at Cambridge), to 76° at Brussels, to 80° and more at Paris, Lyons, and in Italy, and to 90° and more over Algeria.

Wind almost calm over central, south-eastern, and southern Europe, moderate in force over the north-western and northern countries, North-Westerly in Ireland, Westerly to Southerly over Wales and England, Southerly on the eastern shores of the North Sea and in Norway, South-Westerly over the Baltic. The North-Westerly wind spreading to Wales and the west of England later, and Southerly breeze veering Westwards over the North Sea, but wind beginning to back again in Ireland.

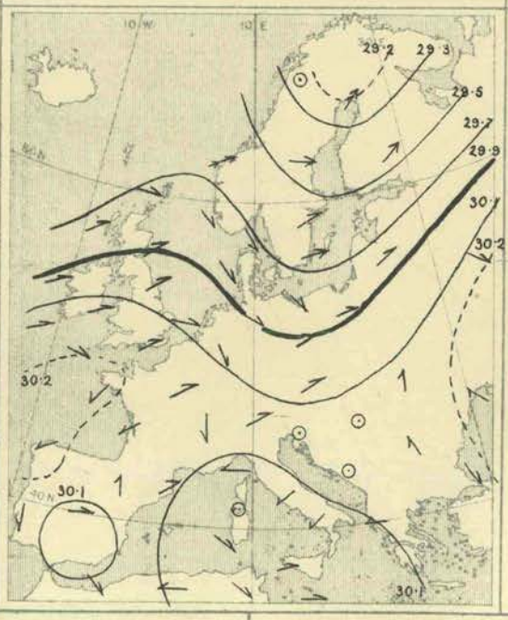
Barometer highest, 30·2 ins. and more to 30·0 ins. over central, south-eastern, and south-western Europe. Lowest, 29·5 ins. and less in a well-marked depression over Scotland and the northern parts of the North Sea, and about 29·2 ins. over the Bay of Biscay. Depression over these latter regions moving quickly to the north-eastward later, and barometer rising quickly over the British Islands, slightly in the west of France.

Wednesday, 14th September.

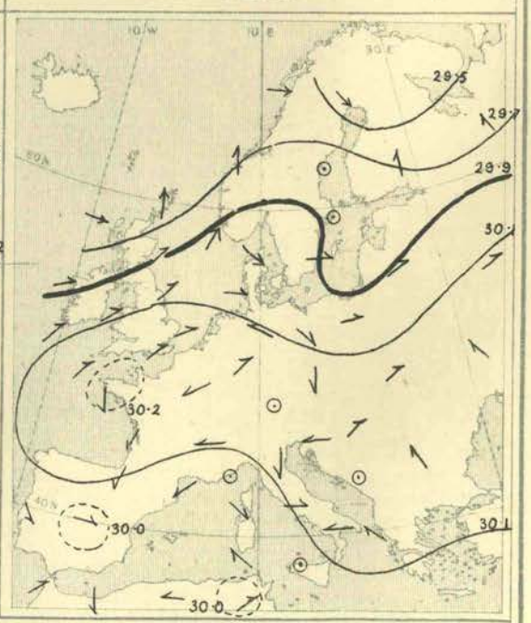
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fine and bright over south-eastern, southern, and western Europe, as well as over the major part of Great Britain; cloudy at our western stations, with showers in places, dull and rainy over the northern half of Scandinavia. Some showers later in Ireland, Scotland, and Norway, and considerable falls of rain at Biarritz and Nancy: lightning observed at Lyons.

Temperature still ranging between 65° and 75° at the Mediterranean stations, exceeding 60° over southern and central Europe generally; much lower elsewhere. Below 50° in many parts of the United Kingdom and the north of Norway, and as low as 45° at Moscow and Bodö, 47° at Loughborough, 48° at Shields and Christiansund. Failing to reach 70° in any part of our Islands later, but touching 72° at Wiesbaden, 79° at Nice, and 80° at Lyons, rather higher in the south of Italy, 88° at Cape Bearn, and 95° at Biskra (Algeria).

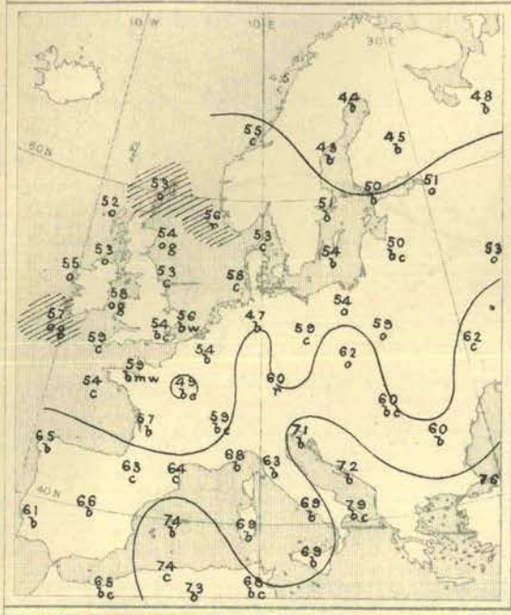
Wind very light and variable over south-eastern Europe, light Easterly over southern Europe, and North-Easterly over the Bay of Biscay and Spain; chiefly Westerly (South-Westerly to North-Westerly) over the more northern countries, and blowing somewhat strongly over the Baltic and Scandinavia. Backing to the South-Westward and Southward in Scotland and Ireland later, and increasing in strength at our western stations.

Barometer highest, 30·2 ins. and more to 30·1 ins. (1) over the Bay of Biscay, France, and the southern parts of our Islands; (2) over southern Russia and the Balkan Peninsula. Lowest, (1) about 29·2 ins. over Lapland, and about 29·7 ins. off the north of Scotland; (2) below 30·0 ins. over Malta and the southern parts of Sicily. Beginning to give way rather briskly in the north-west of our Islands later, but rising over the Baltic, Germany, and the south-eastern half of the North Sea, as the anticyclone in the south-west moved eastwards.

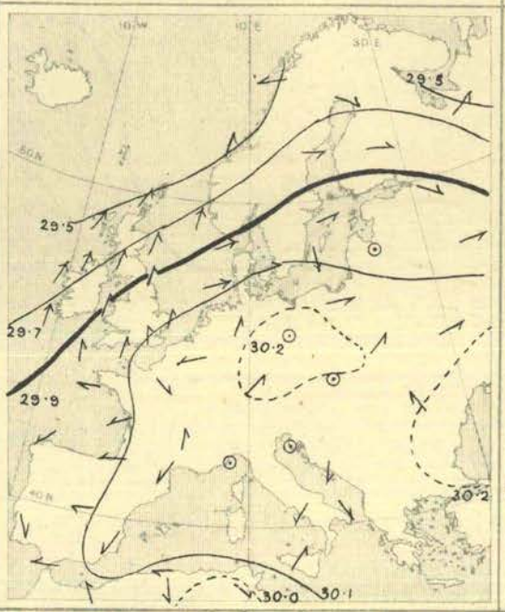
III.—SUMMARY OF WEATHER OVER EUROPE.

Thursday, 15th September.

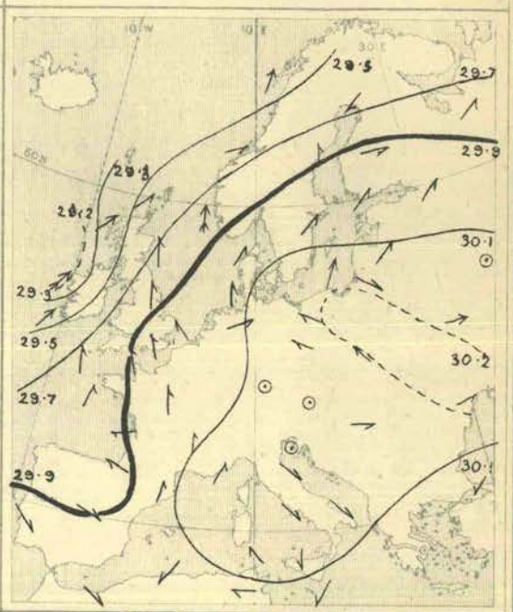
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine generally at the Continental and the majority of the English stations,—clear and bright in most places, but cloudy over Germany; dull, gloomy, and unsettled in the west and north of our Islands, and the south of Norway, with rain at St. Ann's Head, and also at Skudesnaes; thunderstorm at Biarritz. A good deal of rain later in the west and south of Ireland, in the Hebrides and Shetlands, and in Norway, as well as in the Netherlands and their neighbourhood—smaller quantities on our western coasts generally; lightning at Prawle Point, thunder and lightning at Rochefort.

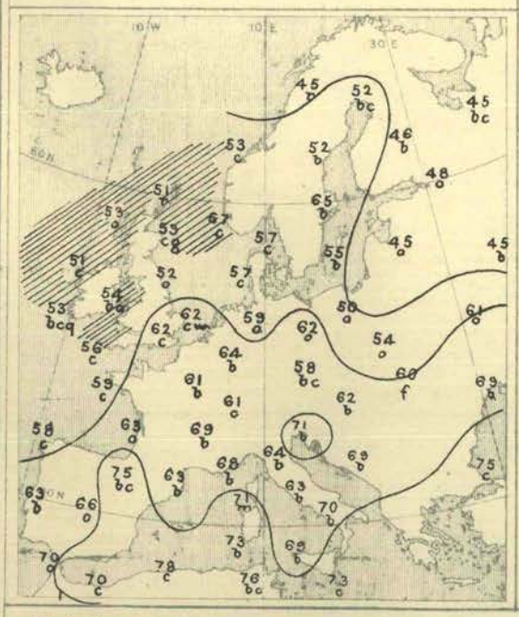
Temperature fallen over northern Europe, not much changed elsewhere. Morning readings, 60° to 75° over the greater part of the Mediterranean coasts, and exceeding 60° over south-western, southern, and south-eastern Europe generally; below 60° over the United Kingdom, Germany, and the North Sea, and as low as 43° at Haparanda, 45° at Bodö, and 48° at Archangel. Rising later to 60° and more in Scotland and Ireland, to between 65° and 69° over England, 70° at Paris, 79° at Rochefort, 81° at Nice, 83° to 85° in the south of France and in Italy, and to 90° and more over Algeria.

Wind calm, or very light and anticyclonic at the central, south-eastern, and southern stations in Europe: Easterly over the Bay of Biscay: Southerly over the United Kingdom—light in the east and fresh to strong in the west; South-Westerly on the eastern shores of the North Sea; Westerly, light, over northern Europe. Beginning to blow hard from South and South-West in Ireland later, but remaining light in the east and south of England.

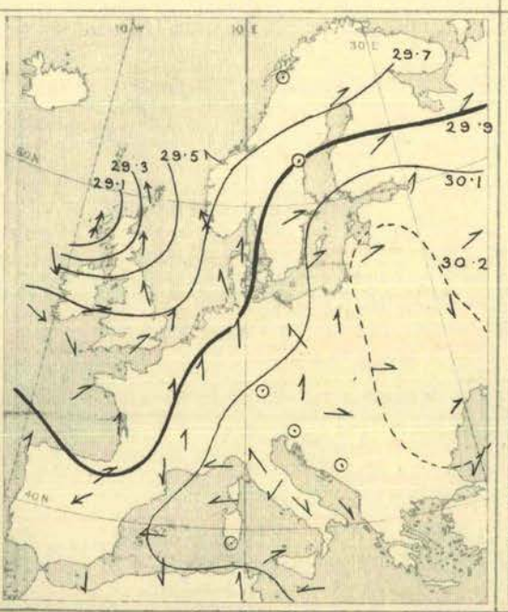
Barometer highest, 30·2 ins. and more to 30·0 ins. over eastern, central, and western Europe, including the south-eastern half of England. Lowest, 29·5 ins. and less (1) in the north of Russia, and (2) off the north-west coast of Norway; 29·7 ins. and less off the north-west of Ireland. Falling fast at the Irish stations and steadily over England during day, as a deep depression approached our north-west coasts from the Atlantic.

Friday, 16th September.

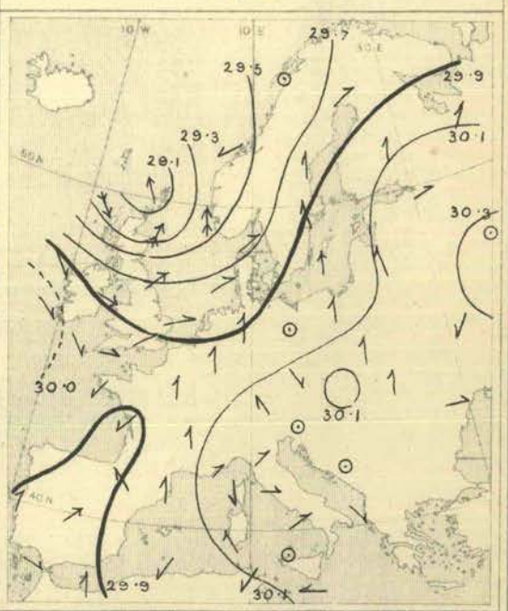
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning dull, squally, and showery over all the north-western and northern parts of our Islands, cloudy and unsettled in England and some parts of Germany, rainy at Wiesbaden; fine generally over south-western and southern Europe, foggy in Austria, dull in the south of Russia. Some rain later over all the northern parts of the British Islands and Norway, and local showers over parts of England, the Baltic, and France; a thunderstorm at Lorient.

Temperature changing fitfully over the British Islands (risen over England). Morning readings exceeding 70° at many Mediterranean stations, and exceeding 60° over Spain, south-eastern Europe, the greater part of France, and the south-eastern counties of England; lower elsewhere, and lowest of all, 45° at Moscow, Archangel, and Bodö, 46° at Kuopio, 51° at Sumburgh Head. Rising later to 70° in London and at Yarmouth, to between 70° and 84° over France, and still higher over Italy, but failing to reach 60° in Ireland and north Britain, and scarcely exceeding 55° in the north of Scotland.

Wind extremely light and variable over the Mediterranean, southern, central, and eastern Europe. Cyclonic over the British Islands and their neighbourhood, and blowing a fresh gale from between South and West at the most northern of our stations; North-Westerly in the west of Ireland, South-Easterly (moderate) at Christiansund. Southerly gale blowing in the east of Scotland later, and a North-Westerly gale on our north-west coasts; a hard gale from North-West at Wick subsequently.

Barometer highest, 30·2 ins. and more over Poland and Hungary, and exceeding 30·0 ins. over south-eastern and southern Europe generally, and the Mediterranean. Lowest, 29·1 ins. and less in a depression lying off the north-west of Scotland, and below 29·6 ins. in the north-west of Norway. Depression in north-west moving north-eastwards later, and barometer rising fast in Ireland, and England.

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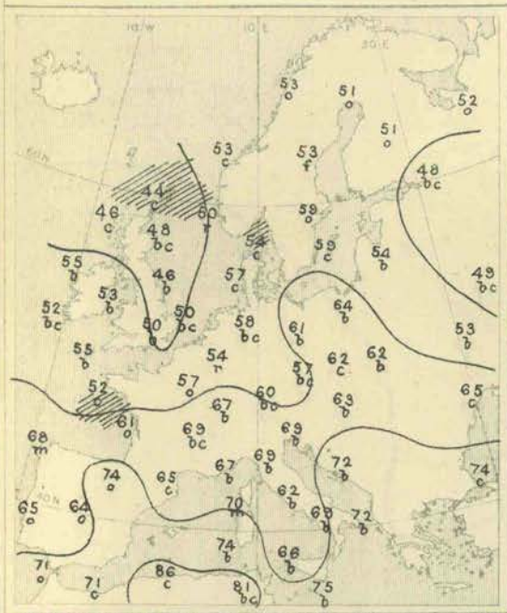
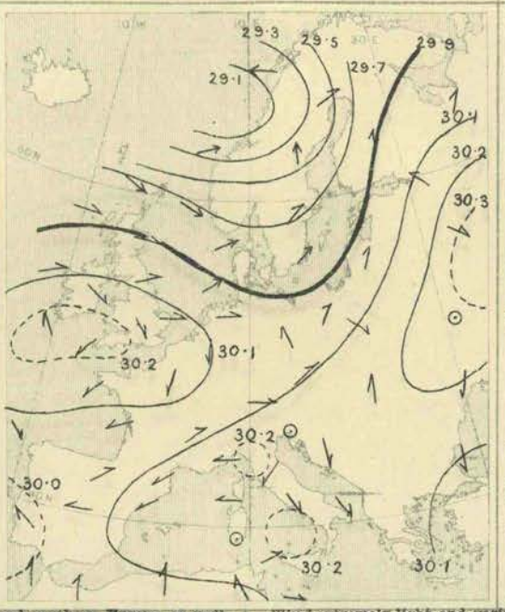
III.—SUMMARY OF WEATHER OVER EUROPE.

Saturday, 17th September.

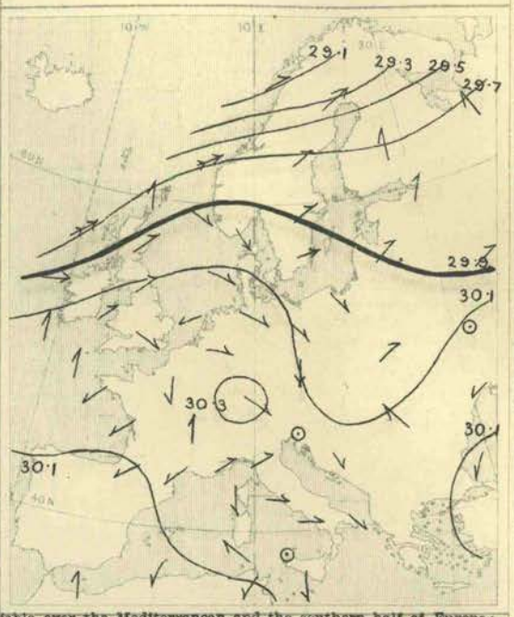
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fine and bright over eastern, south-eastern, and southern Europe, as well as over the greater part of the British Islands; dull over Spain and Portugal, the west and north of France, Scandinavia, Finland, and northern Russia, with rain in several places. Rainfall during day considerable over Norway and the northern and north-western parts of the United Kingdom, also in several parts of Germany; slight and local in various parts of France and Portugal. Very fine weather continuing over England.

Temperature changing very little over the British Isles—rising quickly after a cold night. Morning readings exceeding 80° on the Algerian coast (86° at Algiers) and exceeding 70° at several of the south European stations generally; exceeding 60° over south-eastern and central Europe, but below 50° in many parts of north-western and northern Europe, with the British Islands. Lowest of all, 43° at Parsonstown, 44° at Sumburgh Head, 46° at Stornoway, Nairn, and Shields, 47° at Loughborough, 49° at York, and also at Moscow. Rising later to 60° and more over England and the northern half of France, to between 75° and 85° over the southern parts of France and in Italy, and to 95° in some parts of Algeria. Sharp frost on grass over England at night.

Wind extremely light and variable over the Mediterranean and the southern half of Europe; light and anticyclonic (Westerly in the north and North-Easterly in the south) over the British Islands, strong and cyclonic over northern Europe—Southerly over Finland and the Gulf of Bothnia, South-Westerly to Westerly over the southern half of Norway, but Easterly (light) at Bodö. Becoming strong from South-South-West in Ireland and the west of Scotland later and backing Westwards in the south of England.

Barometer highest, 30·3 ins. and more to 30·1 ins. over the southern half of Russia and south-eastern Europe generally, and 30·2 ins. to 30·1 ins. over Ireland, England, and the north of France. Lowest, 29·1 ins. and less in a well-marked depression over the north-west of Norway and neighbouring parts of the Atlantic. Gradients steep over Scandinavia. Beginning to fall in the British Islands later, but rising over Scandinavia, as the depression there travelled northwards.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟿ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During the greater part of this week pressure has been uniformly high over western, central, and eastern Europe, low over the north-western and northern countries, and occasionally in the extreme south of Italy. In the north-west and north depressions of considerable size and intensity have been observed, travelling in a north-easterly direction, and causing strong winds, and at times gales, from the Southward, Westward, and North-Westward, with frequent, and in some cases heavy, rain. Further to the southward the weather has been fine as a whole, and the wind light—the days warm and genial, the nights cooler, and on Saturday night a frost was felt on the ground of the inland counties of Great Britain. On the first day or two heavy rains were experienced in the south of Italy, and thunderstorms occurred in places.

BRIGHT SUNSHINE Values for the Week in addition to those found on page 218.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH					EASTBOURNE	49·2	?	56	?
OSWALDKIRK (Yorkshire)	25·0	?	28	?	TENBY *	32·3 *	?	37 *	?
WORKSOP	23·3	− 2·6	26	− 3	NEWQUAY *	37·0	?	42	?
THURCASTON (Leicestershire)	30·2	+ 4·8	34	+ 5	TORQUAY *	32·4 *	?	37 *	?
MARGATE	35·0	?	40	?	ARLEY COTTAGE (County Cavan)	20·5	?	23	?
WESTBOURNE (Sussex)	41·3 *	?	47 *	?	GUERNSEY *	51·3 *	?	59 *	?
BRIGHTON	44·4	?	50	?					

* The values at Westbourne, Tenby, Torquay and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.
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VOL. IX. No. 38.] *Third Series.* WEEK ENDING SATURDAY, 24TH SEPTEMBER, 1892 [*Price 6d.* [*Annual subscription, post paid, £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years' observations (1871-90). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the ten years 1881-90. RAINFALL.—*The Mean amounts* are those for the corresponding periods in the twenty-five years 1866-90, but the *Mean numbers of Rainy Days* are those for the ten years 1881-90, only. BRIGHT SUNSHINE.—*The Mean values* employed are those for the corresponding periods in the ten years 1881-90.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 224.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1892. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	62	27	55·3	39·7	47·1	3 below.	45	−15	6	+ 4	1519	− 52	760	+218
	1. SCOTLAND, EAST -	64	25	56·5	40·8	48·2	3 below.	48	−22	3	+ 1	1781	−232	813	+243
	2. ENGLAND, N.E. - -	67	40	57·6	48·7	52·9	0 (average)	76	− 2	0	− 1	2015	−131	684	+186
	3. ENGLAND, EAST -	68	31	62·9	49·5	55·9	1 above.	97	+ 7	0	− 1	2379	−118	771	+210
	4. MIDLAND COUNTIES	68	30	60·0	48·1	53·8	0 (average)	83	− 3	0	− 2	2354	−100	802	+248
	5. ENGLAND, SOUTH -	72	30	65·0	51·6	58·0	2 above.	112	+13	0	0	2600	− 88	554	+138
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	61	30	56·3	44·3	50·0	2 below.	56	−18	0	− 1	1927	−134	610	+193
	7. ENGLAND, N.W. -	63	28	58·6	48·5	53·3	1 below.	79	− 2	0	0	2158	− 83	579	+165
	8. ENGLAND, S.W. -	72	30	61·2	50·3	55·5	1 above.	95	+ 4	0	0	2443	− 39	433	+117
	9. IRELAND, NORTH -	62	33	57·3	46·4	51·6	1 below.	67	−10	0	0	2095	−105	484	+122
	10. IRELAND, SOUTH -	66	34	58·9	49·0	53·7	1 below.	82	− 5	0	0	2449	− 27	410	+132
	— CHANNEL ISLANDS -	71	46	65·0	54·4	59·4	1 above.	122	+11	0	0	2834	+ 75	164	+ 42

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 224.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1892. Number of Rainy Days.	Difference from Mean.	Total Fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1892. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of In.	10ths of In.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	3	13	2 more.	181	+10	33·6*	+ 0·8	26	+10	31	+12	996	+ 4	28	0
	1. SCOTLAND, EAST -	4	4	3 less.	142	+ 1	19·2	− 3·1	35	+18	41	+22	1165	+ 11	33	+ 1
	2. ENGLAND, N.E. - -	5	5	1 less.	138	+ 8	17·5	− 0·9	22	− 2	26	0	1109	+ 54	31	+ 1
	3. ENGLAND, EAST -	5	11	4 more.	127	0	17·3	− 0·9	18	−15	22	−15	1324†	+ 43	38	+ 2
	4. MIDLAND COUNTIES-	5	11	4 more.	123	− 2	16·4	− 3·8	17	−11	20	−10	1235	+ 92	35	+ 2
	5. ENGLAND, SOUTH -	4	7	0 (average)	108	−13	14·3	− 4·7	31	0	36	0	1455	+211	42	+ 6
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	4	10	1 less.	143	− 6	31·5	− 2·6	30	+ 3	35	+ 5	1234	+ 92	35	+ 3
	7. ENGLAND, N.W. - -	4	9	1 more.	143	+ 7	24·9	+ 1·2	22	− 4	25	− 6	1220	+ 86	34	+ 2
	8. ENGLAND, S.W. - -	4	8	2 less.	129	−10	18·7	− 8·8	24	− 8	28	− 7	1440	+ 89	41	+ 2
	9. IRELAND, NORTH -	4	6	3 less.	157	− 4	26·5	+ 0·3	22	0	26	0	1091	+ 51	31	+ 2
	10. IRELAND, SOUTH -	4	10	2 more.	139	− 8	27·5	+ 0·1	20	− 8	23	− 9	1185	− 24	34	0
	— CHANNEL ISLANDS -	4	2	6 less.	127	− 20	17·7	− 4·1	44	+10	52	+10	1731	+144	50	+ 4

Bright Sunshine.—For several of the stations there are no "mean" values available, and the "difference from the mean" in some of the districts is consequently that of only a few of the stations.

General Remarks.

Weather during this period was generally cloudy and unsettled, with considerable falls of rain in many parts of England, Ireland, and the north of Scotland; it was, however, comparatively bright and dry in the eastern and western parts of Scotland.

Temperature continued rather below the mean in Ireland and Scotland, and was slightly below in England N.W. also. Over the greater part of England, however, it just equalled, or slightly exceeded, the normal. The highest of the maxima were recorded, as a rule, during the earlier days of the week, and ranged from 72° in England S. and S.W., and 71° in the Channel Islands, to 63° in England N.W., 62° in Ireland N. and Scotland N., and 61° in Scotland W. The lowest of the minima were registered on the 18th over England, on irregular dates in Ireland, and on the 21st in Scotland. They were very low for the time of year, the sheltered thermometer falling to 25° in Scotland E., and to between 28° and 31° in most other parts of Great Britain. In the Channel Islands, however, the lowest reading was 46°.

Rainfall was more than the mean in Scotland N., England E., the Midland Counties, and England N.W., as well as in Ireland S., while in England S. the actual fall and the mean were identical. In all other districts, the fall was less than the normal.

Bright Sunshine exceeded the mean in Scotland and the Channel Islands, but was below it in nearly all other parts of the Kingdom. The proportion of the possible duration which was actually recorded ranged from 52 per cent. in the Channel Islands, and 41 in Scotland E., to 23 in Ireland S., 22 in England E., and 20 in the Midland Counties.

Barometer and Wind.—At the commencement of the week the barometer was highest in the south, and depressions were passing north-eastwards off our northern coasts, the winds over our Islands being moderate to strong from the South-Westward. By Tuesday, however, a shallow, but complex, low pressure system had appeared in the west, and during the next few days travelled very slowly eastwards over the southern parts of England and the Channel, accompanied by light or moderate breezes from between North and East, and it was not till the end of the week that this system had entirely dispersed. Depressions were then re-appearing off our north-west coasts, and the wind had returned to the South-Westward.

* This value has been altered owing to the receipt of further information.

† The corresponding figures in last week's report should read "1306."

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II.—DATA from which the SUMMARY on page 223 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°				Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head ⚓	56	36	52·1	41·7	46·7	− 2·9	34	1	4	0·86	+0·06	*	*	*	*
	Stornoway	58	34	54·7	39·6	46·8	− 3·0	44	7	3	0·45	−0·54	33·8	+ 9·6	40	+12
	Wick	62	34	54·9	40·7	47·5	− 3·1	44	4	3	0·24	−0·36	*	*	*	*
	Lairg ⚓	61	27	57·1	36·4	46·3	− 3·6	54	16	3	0·61	−0·17	*	*	*	*
	Glencarron ⚓	62	34	55·6	38·9	46·9	− 2·6	47	9	3	2·66	+1·00	*	*	*	*
	Fort Augustus ⚓	58	29	55·8	38·6	46·8	− 4·3	48	10	3	1·48	+0·56	18·3	?	22	?
	Fort William ⚓	60	34	56·6	42·1	49·0	− 2·7	49	0	3	2·75	+1·12	25·7	?	30	?
1. SCOTLAND, E.	Nairn	64	25	57·0	35·6	45·8	− 5·7	53	18	3	0·77	+0·17	*	*	*	*
	Aberdeen	63	32	56·3	41·4	48·5	− 3·1	48	2	3	0·10	−0·60	44·3	+19·3	52	+22
	Braemar ⚓	60	23	55·3	36·0	45·2	− 2·9	48	17	3	0·54	−0·28	36·5†	?†	43†	?†
	Ochtertyre ⚓	63	33	57·9	40·4	48·7	− 2·4	54	4	3	0·26	−0·59	*	*	*	*
	Leith ⚓	62	39	57·3	46·4	51·6	− 1·8	67	0	3	0·28	−0·24	*	*	*	*
	Marchmont ⚓	60	41	54·9	44·7	49·6	− 1·1	53	0	6	0·67	−0·10	22·7	?	27	?
2. ENGLAND, N.E.	Alnwick Castle	60	47	55·3	48·6	51·8	+ 0·4	69	0	5	0·44	−0·21	*	*	*	*
	Durham	65	43	57·9	47·6	52·5	+ 0·2	74	0	5	0·87	+0·29	17·9	− 4·9	21	− 6
	Shields	63	42	57·4	47·7	52·3	− 0·5	72	0	5	0·59	−0·03	*	*	*	*
	Scarborough ℳ	67	42	58·1	48·8	53·2	− 0·5	78	0	4	0·35	−0·32	*	*	*	*
	York	62	40	58·4	48·0	53·0	− 0·6	77	0	5	0·16	−0·46	27·8	+ 5·3	33	+ 6
	Spurn Head	64	44	58·6	51·3	54·8	− 0·2	90	0	5	0·59	+0·09	*	*	*	*
3. ENGLAND, E.	Hillington ℳ	65	33	61·7	48·4	54·7	+ 0·6	89	0	5	0·54	−0·09	13·8	−12·9	16	−15
	Yarmouth	65	42	61·4	52·4	56·7	+ 1·4	103	0	5	0·66	−0·04	*	*	*	*
	Geldeston	67	37	63·5	49·4	56·1	+ 1·3	99	0	5	0·95	+0·35	16·9	−15·8	20	−18
	Cambridge	67	33	64·6	48·6	56·2	+ 1·3	99	0	5	2·18	+1·66	20·0	−10·0	24	−11
	Rothamsted	68	31	63·3	48·8	55·7	+ 1·9	96	0	5	0·97	+0·31	22·0	?	26	?
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	68	43	59·7	47·6	53·4	− 0·2	89	0	6	0·90	+0·29	*	*	*	*
	Loughborough	65	39	60·6	49·3	54·7	+ 0·1	89	0	4	1·49	+0·84	*	*	*	*
	Stamford (Ketton Hall)	65	32	61·4	48·6	54·7	+ 0·3	89	0	4	1·42	+0·72	*	*	*	*
	Cheadle ℳ	61	37	57·5	46·5	51·7	− 0·6	68	0	5	1·00	+0·23	*	*	*	*
	Churchstoke ℳ	62	39	58·3	47·4	52·6	+ 0·3	74	0	5	1·83	+1·17	14·4	− 2·8	17	−15
	Hereford ℳ	66	35	59·8	48·4	53·8	− 0·3	83	0	4	0·46	−0·21	*	*	*	*
	Cirencester	67	30	60·4	47·3	53·5	+ 0·2	81	0	5	0·94	+0·17	18·4	− 7·6	22	− 9
	Oxford	68	35	62·6	49·9	56·0	+ 1·3	98	0	5	0·90	+0·25	21·2	− 6·5	25	−10
5. ENGLAND, S.	London	72	35	67·0	50·9	58·6	+ 2·6	116	0	6	0·50	−0·08	26·3†	+ 2·3†	31†	+ 3†
	North Foreland	71	45	64·0	54·0	58·8	+ 2·3	118	0	3	0·93	?	*	*	*	*
	Strathfield Turgiss ℳ	71	30	64·5	49·3	56·5	+ 1·9	102	0	7	0·92	+0·30	*	*	*	*
	Dungeness	69	38	65·7	53·1	59·1	+ 2·4	120	0	4	0·66	−0·01	*	*	*	*
	Hastings (St. Leonards)	68	46	64·5	52·4	58·2	+ 1·1	113	0	4	0·70	+0·02	31·3	− 3·8	37	− 4
	Southampton	71	38	67·1	50·9	58·6	+ 2·5	116	0	3	0·58	−0·17	36·5	+ 3·8	43	+ 6
	Hurst Castle	68	39	65·4	52·7	58·8	+ 2·1	118	0	4	0·41	−0·31	*	*	*	*
	Stowell ℳ	68	35	61·7	49·8	55·5	+ 1·7	95	0	4	0·64	?	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	59	35	57·2	42·6	49·6	− 2·4	53	0	4	1·57	−0·10	*	*	*	*
	Glasgow	57	39	54·4	44·5	49·2	− 2·4	50	0	4	0·79	−0·12	27·1	+ 6·1	32	+ 7
	Ardrossan	60	39	56·0	45·7	50·6	− 2·7	60	0	3	0·65	−0·23	*	*	*	*
	Glenlee ⚓	61	30	56·7	41·9	48·9	− 2·3	49	0	4	1·32	+0·05	*	*	*	*
	Douglas (Isle of Man)	60	36	57·1	46·9	51·8	− 1·1	69	0	4	0·61	−0·29	32·3	+ 2·5	38	+ 3
7. ENGLAND, N.W.	Newton Reigny	62	28	57·9	43·4	50·3	− 1·5	58	0	3	0·97	+0·19	32·4	+ 5·0	38	+ 5
	Stonyhurst	61	43	57·0	47·7	52·1	− 0·8	71	0	4	1·01	−0·18	19·2	− 6·8	23	− 8
	Blackpool ℳ	62	40	58·8	49·6	54·0	+ 0·7	84	0	4	0·60	−0·28	18·7	− 7·0	22	− 9
	Manchester	63	40	58·4	47·3	52·6	− 0·7	74	0	5	1·25	+0·34	*	*	*	*
	Liverpool Obsy. (Bidston)	62	44	59·1	49·1	53·9	− 0·7	83	0	5	1·08	+0·23	*	*	*	*
	Llandudno ℳ	63	47	59·6	50·8	55·0	− 0·4	91	0	4	0·66	−0·03	15·6	− 7·4	18	− 9
	Holyhead	63	49	59·1	51·4	55·1	− 0·4	92	0	4	0·90	+0·11	*	*	*	*
8. ENGLAND, S.W.	Llandovery	64	31	59·9	47·6	53·5	− 0·7	81	0	6	1·29	+0·16	*	*	*	*
	Pembroke	60	50	58·9	53·0	55·8	+ 0·4	97	0	5	0·55	−0·35	14·7	−16·0	17	−19
	Arlington (N. Devon)	66	36	60·6	48·6	54·3	+ 0·2	86	0	4	0·54	−0·60	*	*	*	*
	Cullompton ℳ	72	30	64·0	47·0	55·1	+ 0·8	92	0	2	0·30	−0·58	26·7	− 1·9	31	− 3
	Falmouth	65	42	61·9	52·5	57·0	+ 1·0	105	0	4	0·36	−0·84	32·2	+ 1·4	38	+ 1
	Plymouth															
	Prawle Point	65	46	62·1	53·0	57·3	+ 1·5	107	0	5	1·50	+0·85	*	*	*	*
9. IRELAND, N.	Malin Head	58	41	56·0	47·6	51·6	− 0·7	67	0	3	0·31	?	*	*	*	*
	Londonderry	—	36	—	45·0	—	—	—	—	4	0·55	−0·35	*	*	*	*
	Edenfel (Omagh)	62	36	57·7	45·4	51·3	− 0·3	65	0	4	0·67	?	*	*	*	*
	Mullaghmore	60	43	57·6	47·7	52·4	− 2·1	73	0	4	0·82	−0·43	*	*	*	*
	Belmullet	59	43	56·6	48·7	52·5	− 3·1	74	0	4	0·48	?	*	*	*	*
	Markree Castle	60	33	57·7	45·1	51·1	− 1·0	64	0	5	0·67	−0·08	19·9	− 0·9	23	− 3
	Brookeborough	62	34	57·6	44·3	50·6	− 0·5	60	0	5	0·85	−0·05	*	*	*	*
	Armagh	60	35	57·5	44·6	50·7	− 1·4	61	0	5	0·38	−0·24	25·7	+ 2·7	30	+ 2
	Donaghadee	60	45	58·3	48·4	53·1	+ 0·1	78	0	5	0·30	−0·40	*	*	*	*
	Edgeworthstown	61	39	57·1	45·9	51·2	− 0·7	64	0	4	0·67	−0·06	*	*	*	*
10. IRELAND, S.	Dublin	64	45	59·2	50·1	54·5	+ 0·2	88	0	4	0·70	+0·15	22·8	− 5·6	27	− 6
	Parsonstown	62	38	57·9	45·0	51·1	− 1·6	64	0	4	0·79	+0·06	14·5	−11·5	17	−13
	Kilkenny	66	41	59·1	47·7	53·1	− 1·0	78	0	5	0·86	+0·20	*	*	*	*
	Waterford	64	49	60·3	51·5	55·7	+ 0·7	96	0	4	1·49	+0·71	*	*	*	*
	Roche's Point	61	45	59·3	51·3	55·1	0·0	92	0	5	1·99	+1·08	*	*	*	*
	Valencia	61	40	58·4	49·6	53·8	− 1·8	83	0	3	0·34	−0·71	22·5	− 4·0	26	− 6
	Killarney	62	34	58·3	47·2	52·5	− 1·9	74	0	6	0·90	?	*	*	*	*
	Foynes	61	42	58·4	49·4	53·7	0·0	82	0	4	0.88	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	66	48	61·9	53·9	57·7	+ 0·4	110	0	5	0·32	−0·52	*	*	*	*
	Jersey	71	46	68·0	54·9	61·1	+ 2·3	134	0	2	0·11	−0·63	46·5	+ 9·3	55	+10

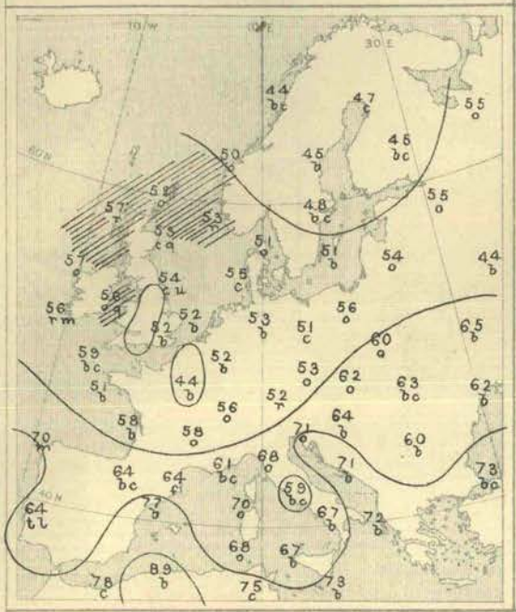
Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked ⚓ with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

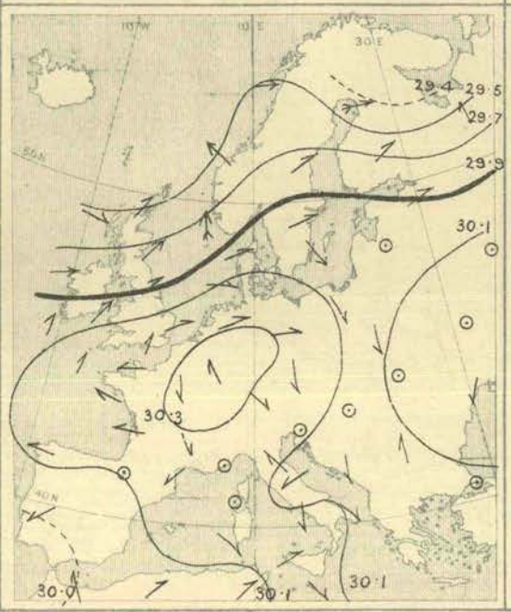
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory and the Meteorological Office, Victoria Street. For additional Reports of Sunshine see last page.

Sunday, 18th September.

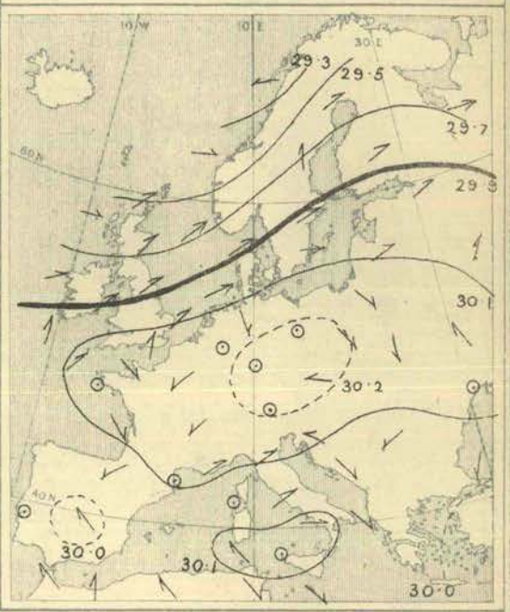
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over nearly the whole of the Continent and the greater part of England; dull and showery in Ireland, Scotland, and Norway. Considerable rain later at Oxö and in the north-west of Ireland, and smaller quantities in the west and north generally; thunderstorm occurring at Lisbon.

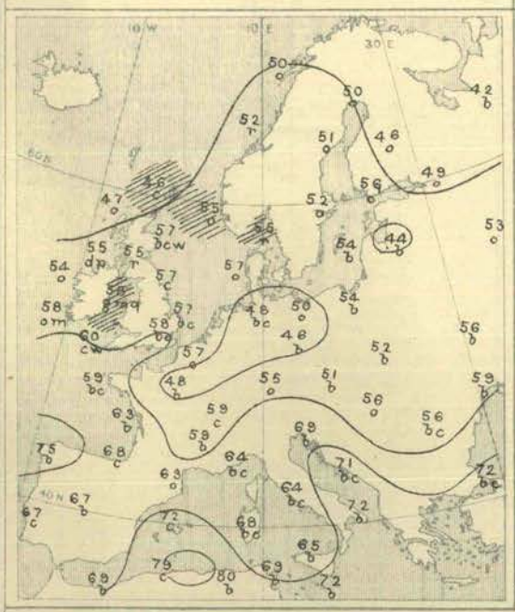
Temperature risen considerably over Scotland and Ireland, fallen over central Europe and in Sweden. Morning readings exceeding 70° at most of the Mediterranean stations, exceeding 60° over southern and south-eastern Europe generally; much lower over central and northern Europe, and lowest of all, 41° at Bodö, Moscow, Cambridge, and Paris, 45° at Kuopio and Hernösand, 47° at Haparanda, 48° at Stockholm. Rising later to between 60° and 67° over England and the east of Scotland, to 70° and more over France, and to 80° and more in several parts of southern Europe; reaching 86° at Biarritz, 90° at San Fernando, and 95° at Madrid.

Wind very light and variable over the greater part of continental Europe, but Southerly to Westerly over the north-western and northern countries, moderate to strong in force at the Irish, Scotch, and Norwegian stations, and at the northern extremity of the Gulf of Bothnia, very moderate over the Baltic. Decreasing in force in Scotland and Ireland later, little change elsewhere.

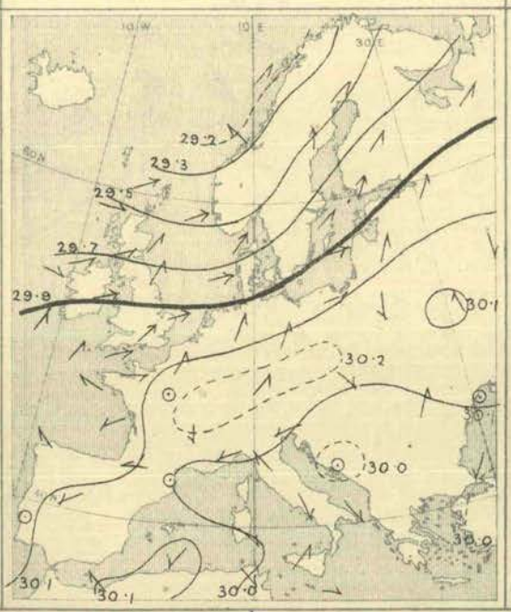
Barometer, 30·3 ins. and more to 30·1 ins. in a large anticyclone covering Germany, Austria, France, and England, and 30·2 ins. and more to 30·1 ins. in a similar system covering the southern half of Russia. Lowest, 29·4 ins. and less off Lapland and the Kola Peninsula, 29·5 ins. and less to the northward of Scotland. Gradients somewhat steep in the north-west and north of our Islands, and over Scandinavia. Falling later both over the United Kingdom and northern Europe; anticyclone moving eastwards, and becoming somewhat reduced in height.

Monday, 19th September.

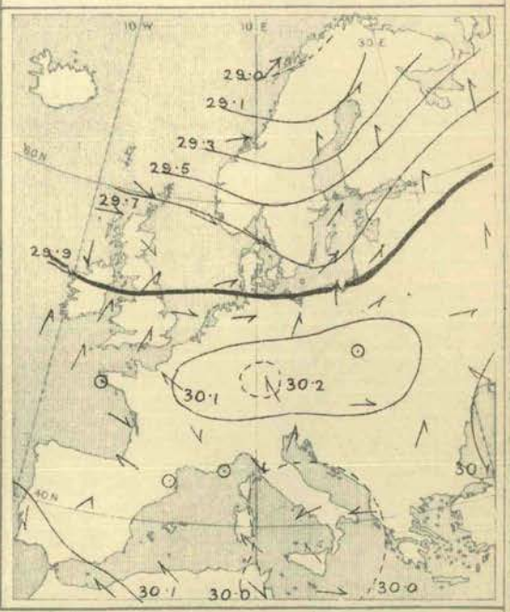
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning continuing fine and bright over south-eastern, southern, and western Europe, including the south-eastern part of England; dull and unsettled in the north and west, with rain in several parts of Scandinavia, Scotland, and Ireland. Heavy rain later in some parts of northern Europe—as much as 2·7 ins. at Ulcaborg. Showers at most of the Scotch and Irish stations, thunder, lightning, and rain still later over the southern parts of England.

Temperature risen decidedly over England, and slightly in some parts of France, fallen over Germany. Morning readings, 70° to 80° over Algeria, and exceeding 70° at Palma, Malta, Brindisi, Lésina, and Constantinople; much lower over Europe and the British Islands generally, but exceeding 60° on the south coast of England. Lowest of all, (1) 42° at Archangel, 45° at Ulcaborg, 46° at Sumburgh Head, 49° at St. Petersburg; (2) 44° at Prague, 46° at Breslau and Berlin, 48° at Paris and Wiesbaden; (3) 46° at Kharkov. Rising later to 70° and more over the south of England and north of France, to 80° and more in many parts of France and Italy, and to 90° and more in Spain, the highest reading of all being 95° at Madrid.

Wind light and variable over eastern, southern, and central Europe, light Easterly and South-Easterly over the Bay of Biscay; Westerly to South-Westerly over the British Islands and North Sea (a gale in the south of Norway), Southerly over Finland and the Gulf of Bothnia. Moderate gale springing up later over the Gulf of Finland; wind veering to the North-Westward on some parts of our north-west coasts.

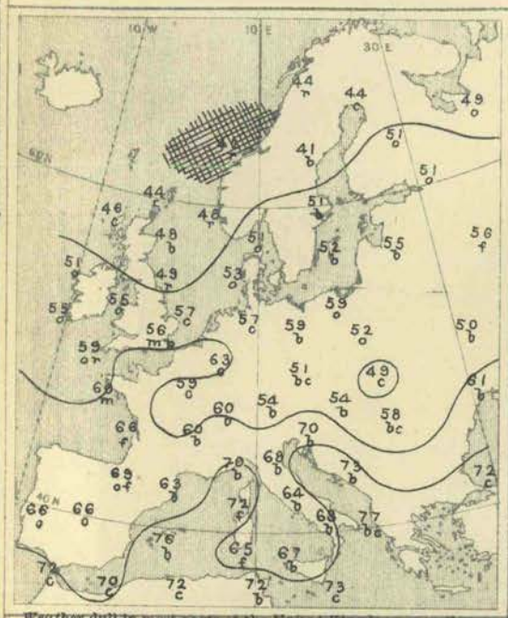
Barometer highest, 30·2 ins. and more to 30·0 ins. over nearly the whole of the southern half of Europe, including the southern counties of England. Lowest, 29·2 ins. and less off the north-west coast of Norway. Gradients moderate over the United Kingdom, the North Sea, the Baltic, and Scandinavia. Shallow local depressions over Hungary and Dalmatia. Depression off west of Norway subsequently spreading eastwards; barometer falling decidedly over northern Europe, but rising briskly in the north of our Islands.

Judd & Co. Lith. 63, Carter Lane, Doctors' Commons.

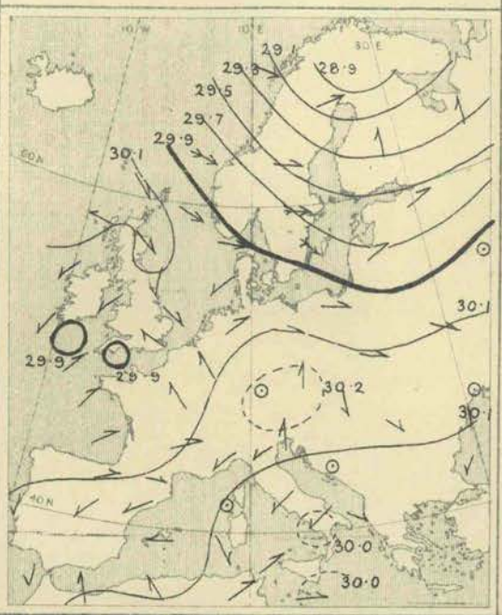
III.—SUMMARY OF WEATHER OVER EUROPE.

Tuesday, 20th September.

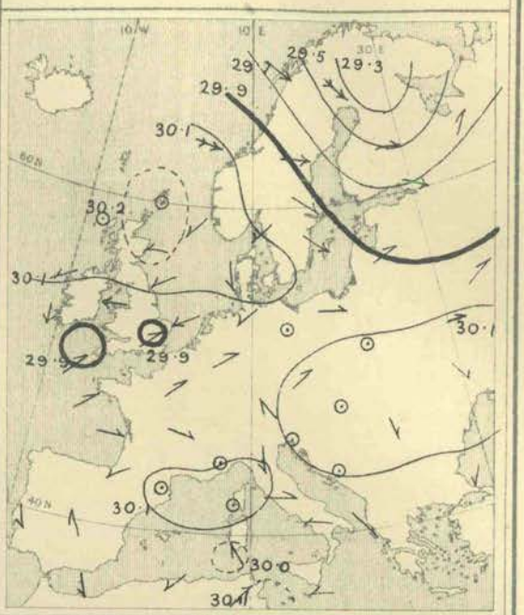
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather dull in most parts of the United Kingdom, as well as in Spain and the west of France, with steady rain on our south-west coasts, passing showers in the south-east of England, and thunder at Cambridge and the North Foreland; fine and bright in the north-east of Scotland, and also over the greater part of the Continent, but dull over northern Russia, and rainy in the west of Norway. Large quantities of rain during day in some parts of England, Holland, the south of Ireland, and the north of France—as much as 1·7 ins. at Utrecht, 1·6 ins. at Dunkirk, 1·4 ins. at Prawle Point, and 1·3 ins. at Loughborough. Thunder and lightning occurring over our southern and south-midland counties.

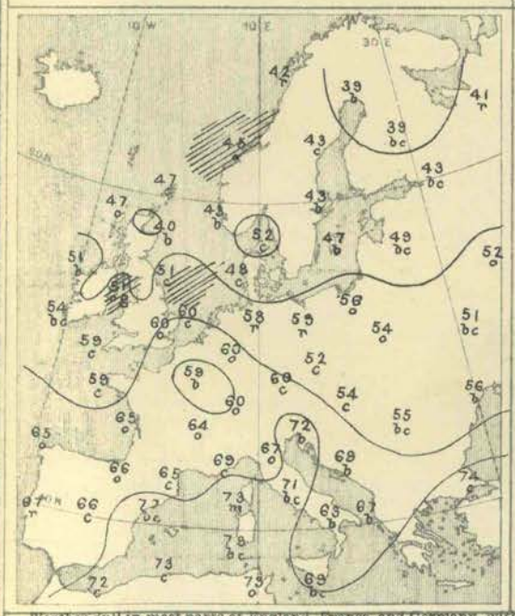
Temperature in morning, highest 77° at Barcelona and Brindisi, and 76° at Palma; above 70° at several of the Mediterranean and Adriatic stations, and above 60° over the English Channel. Lowest, 41° at Haparanda, and 42° at Christiansund, Wick, and Nairn; below 50° in Scotland and Scandinavia generally, but slightly above it in Finland. Daily maxima below 55° at several of our own northern stations, but thermometer exceeding 65° in the extreme south of England, and reaching 72° in London. Rising above 80° in many parts of southern Europe, and reaching 90° at Madrid.

Wind light to moderate from North or North-East over the greater part of the United Kingdom, but variable in the south of England, light from South or South-West over France and the Netherlands; strong to a gale from West or North-West over Scandinavia, and from South-West in the Gulf of Finland; light from South over northern Russia; light and variable over Austria and the southern parts of Russia and Germany; chiefly North-Easterly in Italy, and South-Easterly in Algeria. Light Westerly breezes setting in later at the Channel stations wind shifting to the Eastward over the northern parts of the Kingdom; gale in Scandinavia, subsiding quickly, but wind blowing very strongly from the Westward in Finland.

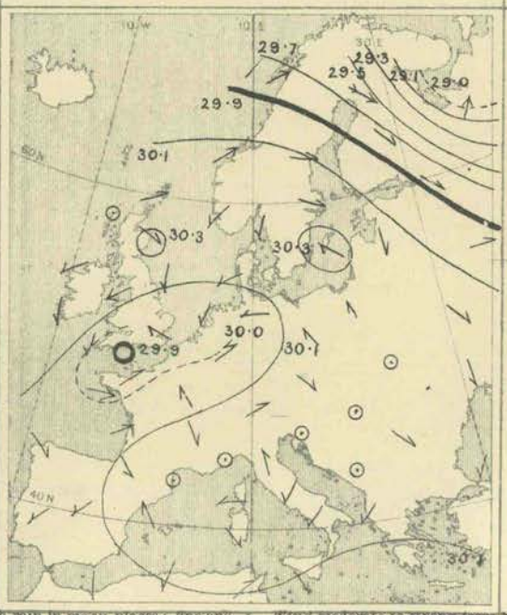
Barometer highest, 30·10 ins. to 30·25 ins. in a broad anticyclonic band stretching from Spain and the western parts of the Mediterranean across the south of France, Germany, and Austria, to the south of Russia; 30·1 ins. and upwards in another area lying over the north and east of Scotland. Lowest, 29·0 ins. and less in a deep depression passing eastwards over Lapland. Trough of relatively low readings (29·85 ins. to 30·0 ins.), with two or three distinct minima, lying over Ireland, England, and the Channel, and moving slowly south-eastwards during day.

Wednesday, 21st September.

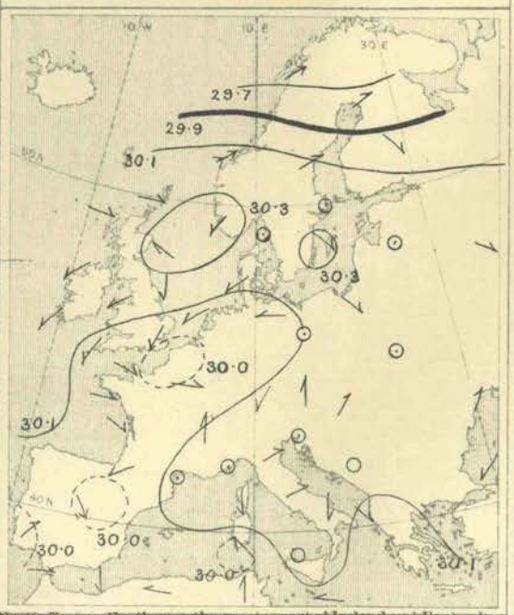
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather dull in most parts of England, France, and Germany, with rain in many places; fine and bright at the Scotch and Irish stations, as well as over the greater part of Scandinavia, Russia, and southern Europe, but rainy at Bodö and Archangel. Heavy rain falling later at many of the English, French, and German stations—as much as 1·5 ins. at Cambridge; thunder lightning, and hail occurring in several parts of our southern and eastern counties, and also at one or two of the French stations.

Temperature highest, 78° at Cagliari, 77° at Barcelona, and 73° at Tunis and Aumale; above 70° at most of the Mediterranean and Adriatic stations, and above 60° over France and the Channel. Lowest, (1) 36° at Nairn, 40° at Aberdeen, and 41° at Wick; (2) 39° at Haparanda and Kuopio, and 49° at Uleaborg. Daily maxima below 60° in all the more western and northern parts of the United Kingdom, but thermometer exceeding 65° in the extreme south of England, exceeding 70° in France, Germany, and Austria, and exceeding 80° in several parts of southern Europe; highest readings of all, 94° at Madrid and 88° at San Fernando.

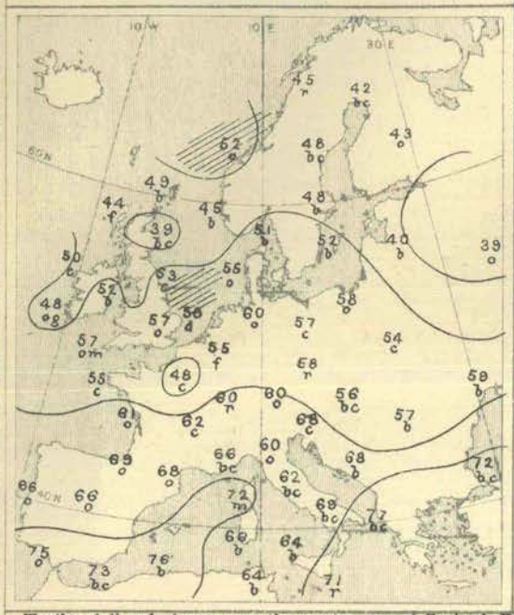
Wind moderate to strong from North-East or North over the greater part of Ireland and England, as well as on the eastern shores of the North Sea, but light from South on our south-east coasts, and from South-West in the west of France; calm or light South-Westerly in Scotland; strong from West or South-West over the northern parts of Scandinavia and Russia, with a gale at Uleaborg; light and variable over Austria, northern Italy, and the southern parts of France and Russia; North-Easterly in Spain, Algeria, and the southern parts of Italy. Subsequently shifting to the North-Eastward in the south-east of England, and veering to the North-Westward in the west of France.

Barometer highest, 30·2 ins. to 30·3 ins. and more in an anticyclonic band stretching from the Atlantic across the northern parts of our Islands and the North Sea to the Baltic, and afterwards trending in a south-easterly direction to Austria and the south of Russia. Lowest, 29·0 ins. and less in a deep depression, the centre of which was passing eastwards across the White Sea; 30·0 ins. and less in a complex depression lying over the Channel, the south of England, and the north of France. Latter system moving slowly south-eastwards during day and partially filling up; anticyclone in north spreading southwards.

III.—SUMMARY OF WEATHER OVER EUROPE.

Thursday. 22nd September.

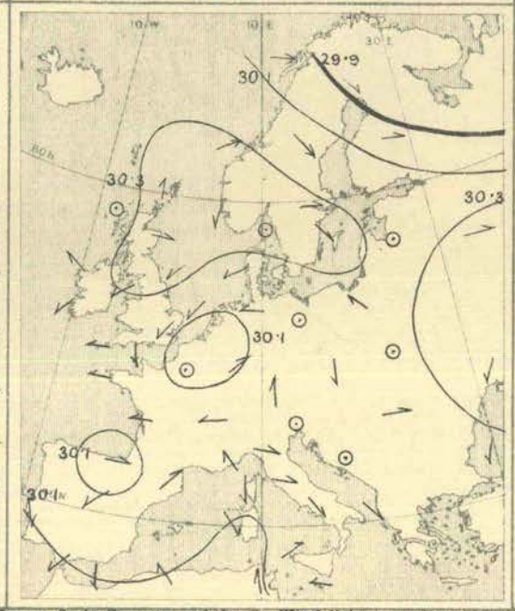
Temperature and Weather. 8 a.m.

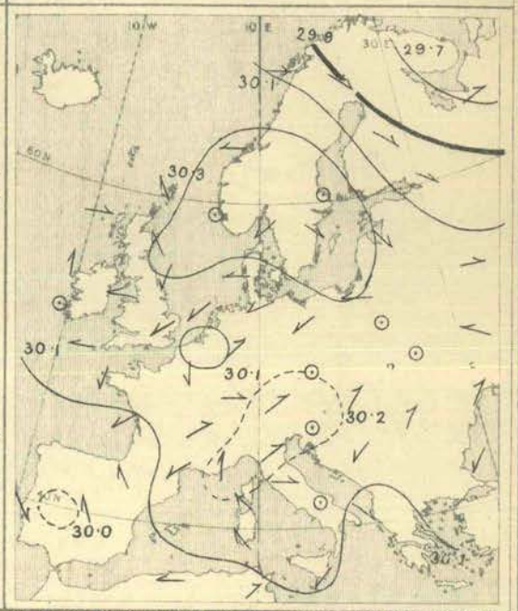


Weather dull and gloomy over the greater part of England, France, Spain, Germany, and the Netherlands, with mist or fog in places, and with rain at Prague and Breslau; fine over all the more northern parts of the United Kingdom (with local fogs), and also over Sweden, the Baltic, the south of Norway, Italy, Austria, and the south of Russia, but dull in the west of Norway, with rain at Bodö. A little rain falling later over England and the south of Ireland, and larger quantities at some of the French and German stations. Thunder and lightning occurring in various parts of France; aurora seen in the north of Scotland at night.

Temperature in morning, highest, 77° at Brindisi, 76° at Barcelona and Algiers, and 75° at San Fernando; above 65° over southern Europe and the Mediterranean generally. Lowest, (1) 38° at Nairn, 39° at Aberdeen, and 44° at Stornoway and Malin Head; (2) 29° at Moscow, 40° at Riga, and 42° at Haparanda. Daily maxima over our Islands below 60° at all but a few of our western and southern stations, and below 55° in the north of Scotland. Thermometer exceeding 70° in some parts of Germany, and exceeding 80° at several of the French, Spanish, and Italian stations, the highest readings of all being 86° at Rome, and 84° at Madrid.

Barometer and Wind. 8 a.m. and 6 p.m.



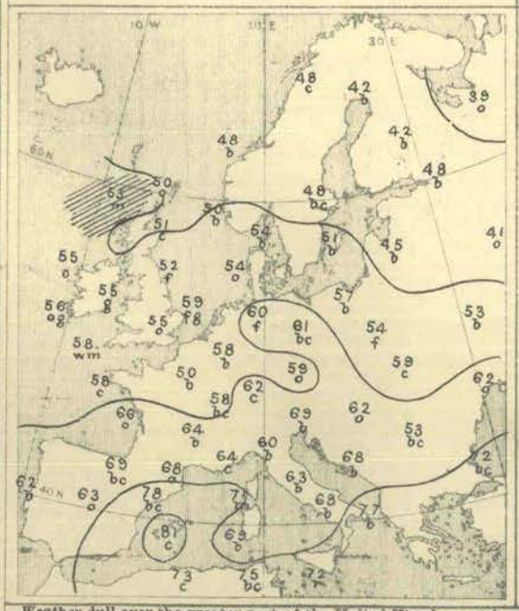


Wind light to moderate from the North-Eastward over England, and from the Eastward over Denmark, Ireland, and the west of France; light and variable in Scotland, Westerly or North-Westerly over the northern parts of Russia and Scandinavia, light North-Easterly in the south of Russia and North-Westerly in Italy, variable over Germany, Austria, central France, Spain, and Algeria. Light Southerly breezes setting in later over Scotland and the north of Ireland; no important change occurring elsewhere.

Barometer highest, 30·3 ins. and upwards in a large anticyclone covering the northern parts of our Islands and the North Sea, and the southern part of Scandinavia, and also in another system lying over the southern parts of Russia. Lowest, 29·9 ins. and less in a depression over northern Russia (Archangel report not to hand), 30·1 ins. and less in two very shallow systems, situated respectively over the Netherlands, and over the southern part of the Bay of Biscay and the adjacent parts of France and Spain. Anticyclone in north subsequently moving eastwards, high-pressure area over southern Russia giving way, depression over Netherlands filling up.

Friday, 23rd September.

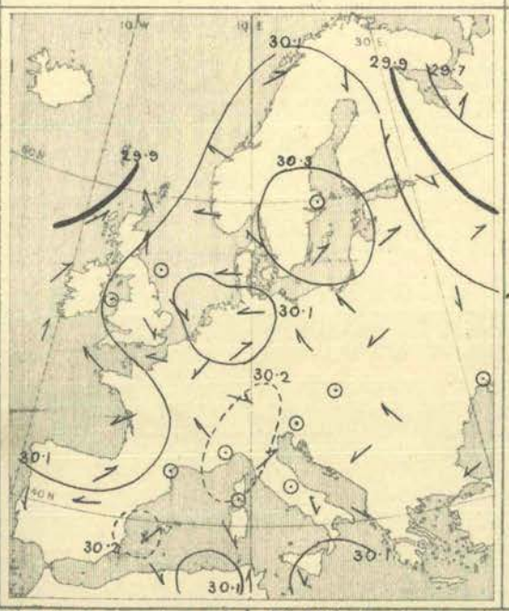
Temperature and Weather. 8 a.m.

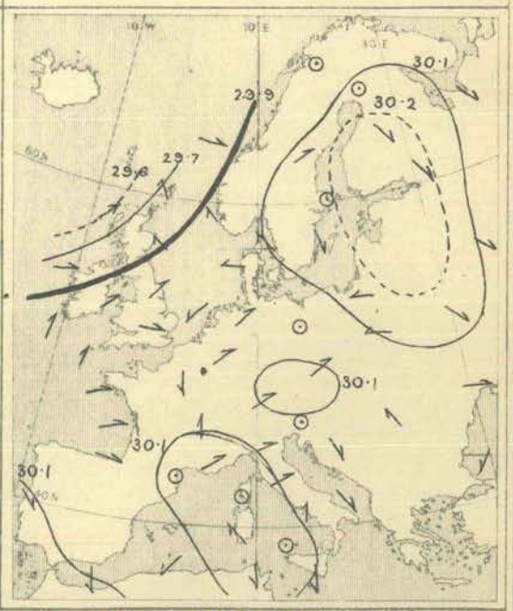


Weather dull over the greater part of the United Kingdom, with mist or fog in many places, and with rain at one or two of the western and northern stations; fine and bright over the Continent generally, but dull in some parts of Russia and Germany. Rain falling later in the west and north of our Islands, but amounts not large; weather improving somewhat in the south-east of England. Thunderstorms and heavy rain occurring in several parts of France, and large quantities of rain in some parts of Austria and Poland.

Temperature in morning, highest, 81° at Palma, 78° at Barcelona, 77° at Brindisi, and 75° at La Calle; above 65° over southern Europe and the Mediterranean generally, and above 60° in some parts of north Germany. Lowest, (1) 39° at Archangel, 40° at Uleaborg, 41° at Moscow, and 42° at Haparanda and Kuopio; (2) 42° at Nairn, but above 50° at most of the other Scotch stations. Daily maxima over England varying in most cases between 60° and 65°, but thermometer reaching 71° at Jersey; exceeding 80° at many of the French, Spanish, and Italian stations, the highest reading of all being 86° at Clermont, Rome, and Palermo.

Barometer and Wind. 8 a.m. and 6 p.m.





Wind light from the Eastward over the west of France and the south-west of England, and from the Southward in Ireland, and Scotland. Cyclonic circulation of light breezes reported over the Netherlands and the east of England. Moderate from East on the eastern shores of the North Sea; Northerly or North-Westerly over the greater part of Russia, and also in Italy; calm or light and variable over Austria and the south of France. Subsequently veering to the South-Westward in the extreme north-west of our Islands, and increasing to a strong breeze or moderate gale; shifting to the Westward in the west of France.

Barometer highest, 30·1 ins. to 30·3 ins. and upwards in a large anticyclone covering England and a considerable portion of the Continent, but below 30·1 ins. in a shallow depression over the Netherlands and our extreme south-east coasts. Lowest, 29·7 ins. and less in a depression lying over northern Russia, 29·9 ins. and less in another system lying off the north-west of Scotland. Depression in north-west subsequently advancing nearer our shores, and barometer falling briskly on our north and north-west coasts generally. Shallow system over the Netherlands entirely disappearing.

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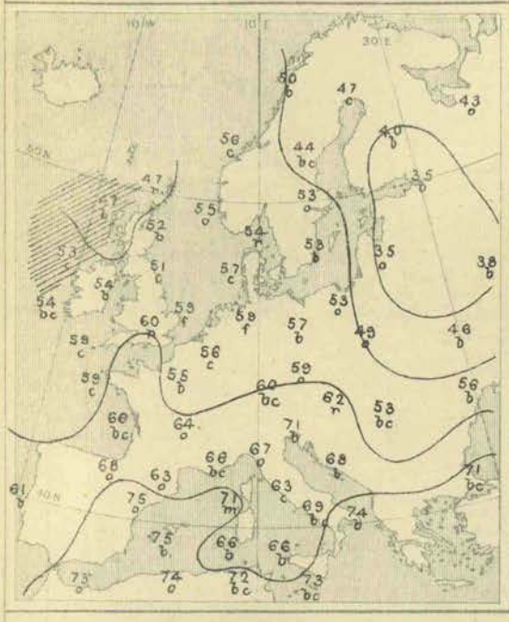
III.—SUMMARY OF WEATHER OVER EUROPE.

Saturday, 24th September.

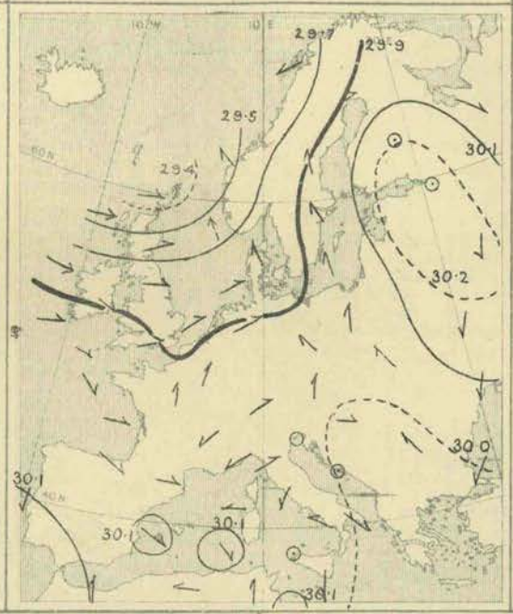
Temperature and Weather.

8 a.m.

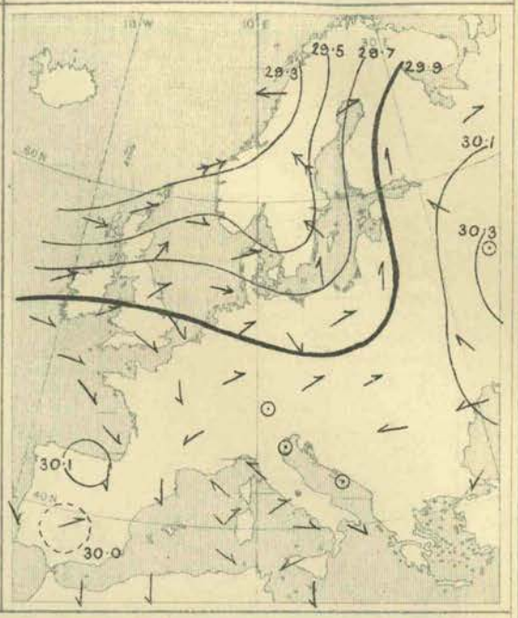


Barometer and Wind.

8 a.m.



6 p.m.



Weather fair over the greater part of Europe, but dull and rainy at some of the inland English stations, as well as at Sumburgh Head, Skagen, and Buda Pesth. Heavy rain falling later in some parts of Scandinavia and the north of Scotland, and smaller amounts in the north of Ireland and the south-west of England. Thunderstorms occurring at one or two of the French stations.

Temperature in morning, highest, 75° at Barcelona and Palma, 74° at Brindisi and Algiers, and 73° at Nemours and Malta; above 65° in most parts of southern Europe, and above 60° at some of the Channel stations. Lowest, 35° at St Petersburg, 38° at Uleaborg and Moscow, and 40° at Kharkov; below 50° over Russia and the north of Sweden generally, as well as at several of the Scotch and Irish stations. Rising during day to between 60° and 67° over England, but not reaching 55° in the north of Scotland; exceeding 70° at most of the French and Austrian stations, and exceeding 80° in several parts of Spain and Italy, the highest readings of all being 88° at Madrid and 86° at Palermo.

Wind Westerly in our Islands, moderate to fresh in force generally, but strong in the north of Ireland; light from the South-Westward over Denmark, the Netherlands, and Germany; Southerly or South-Easterly over Scandinavia and the Baltic; light from North in the south of Russia; variable in Austria, Italy, Algeria, and the south of France; North-Westerly over the Bay of Biscay. Subsequently increasing to a moderate gale from the South-Westward on our extreme north and north-west coasts, to a fresh gale from the same quarter in Norway, and to a strong gale from South-East at Hernösand.

Barometer highest, 30·2 ins. and upwards in an anticyclone over Russia, 30·1 ins. and upwards in another system lying over the south-western parts of the Spanish Peninsula, as well as in several small areas lying over various parts of the Mediterranean. Lowest, 29·4 ins. and less in a depression lying off the north of Scotland. Depression subsequently travelling eastwards to Scandinavia, but new disturbance approaching our extreme north-west coasts in evening.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of the week a large anticyclone covered all the more central and southern parts of Europe, the winds in those regions being light and variable, and the weather fair and warm. In the north-western countries the conditions were affected by some large depressions, the centres of which advanced over the northern parts of Scandinavia from the westward, so that moderate to strong breezes from South-West and West were general, with changeable, showery weather. On the 19th, however, the barometer rose quickly in the north of our Islands, and a new anticyclone appeared over Scotland and the northern parts of the North Sea. A shallow and very complex depression was in the meantime formed over the southern parts of the United Kingdom, and on the 20th and 21st this system moved slowly eastwards to the Netherlands and western Germany, where it gradually dispersed. The progress of the depression was attended by heavy rain over England and France, with thunderstorms in many places, while in its rear the wind shifted to the North-Eastward, and the weather slowly improved. Towards the close of the week the northern anticyclone travelled eastwards and south-eastwards, and became merged in the large Continental high-pressure system. A fresh series of depressions now began to advance over Scandinavia from the westward, so that the general conditions became very similar to those reported at the beginning of the week, light breezes and fair weather being prevalent over the greater part of the Continent, but South-Westerly or Westerly breezes, and showery, unsettled weather, in the north-western and northern countries.

BRIGHT SUNSHINE Values for the Week in addition to those found on page 224.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	—	—	—	—	EASTBOURNE	33·7	?	40	?
OSWALDKIRK (Yorkshire)	13·7	?	23	?	TENBY	17·2 *	?	20 *	?
WORKSOP	13·7	−10·3	16	−12	NEWQUAY				
THURCASTON (Leicestershire)	16·8	— 6·3	20	— 7	TORQUAY	28·7 *	?	34 *	?
MARGATE	24·0	?	28	?	ARLEY COTTAGE (County Cavan)	20·2	?	24	?
WESTBOURNE (Sussex)	35·2 *	?	41 *	?	GUERNSEY	40·4 *	?	48 *	?
BRIGHTON	29·9	?	35	?					

* The values at Westbourne, Tenby, Torquay and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

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VOL. IX. No. 39.] *Third Series.* WEEK ENDING SATURDAY, 1ST OCTOBER, 1892. [*Price 6d.* [*Annual subscription, post paid*, £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years' observations (1871-90). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the ten years 1881-90. RAINFALL.—*The Mean amounts* are those for the corresponding periods in the twenty-five years 1866-90, but the *Mean numbers of Rainy Days* are those for the ten years 1881-90, only. BRIGHT SUNSHINE.—*The Mean values* employed are those for the corresponding periods in the ten years 1881-90.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 230.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1892. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	58	30	51·9	40·6	46·0	3 below.	34	−18	4	+ 1	1553	− 69	764	+219
	1. SCOTLAND, EAST -	61	28	53·8	41·1	47·2	3 below.	40	−20	3	0	1821	−253	816	+244
	2. ENGLAND, N.E. - -	65	32	57·5	44·0	50·4	1 below.	59	− 9	0	− 2	2074	−140	684	+186
	3. ENGLAND, EAST -	68	39	60·6	44·6	52·2	1 below.	71	− 7	0	− 1	2450	−120	771	+209
	4. MIDLAND COUNTIES	68	33	59·4	42·7	50·7	1 below.	61	−15	0	− 3	2415	−108	802	+247
	5. ENGLAND, SOUTH -	68	38	60·8	48·1	54·1	0 (average)	85	− 2	0	− 1	2685	− 85	554	+138
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	61	36	53·5	44·1	48·6	2 below.	46	−20	0	− 2	1973	−152	610	+193
	7. ENGLAND, N.W. -	64	34	56·6	46·2	51·1	1 below.	64	− 4	0	− 1	2222	− 90	579	+165
	8. ENGLAND, S.W. -	66	33	58·1	46·2	51·9	2 below.	69	−11	0	0	2512	− 50	433	+117
	9. IRELAND, NORTH -	62	36	54·7	44·5	49·4	2 below.	52	−16	0	− 1	2147	−120	484	+122
	10. IRELAND, SOUTH -	64	36	56·8	44·8	50·5	3 below.	60	−19	0	− 1	2509	− 42	410	+132
	— CHANNEL ISLANDS -	72	48	62·2	52·1	56·9	0 (average)	104	+ 3	0	0	2938	+ 80	164	+ 42

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 230.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1892. Number of Rainy Days.	Difference from Mean.	Total Fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1892. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of In.	10ths of In.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	7	20	8 more.	188	+12	35·6	+ 1·7	12	− 3	15	− 5	1038	− 5	27	− 1
	1. SCOTLAND, EAST -	6	9	2 more.	148	+ 3	20·1	− 2·9	23	+ 5	28	+ 6	1183	+ 10	32	0
	2. ENGLAND, N.E. - -	4	7	1 more.	142	+ 8	18·2	− 0·8	30	+ 5	37	+10	1139	+ 61	31	+ 1
	3. ENGLAND, EAST -	4	10	4 more.	131	0	18·3	− 0·6	33	+ 6	40	+10	1357	+ 47	38	+ 1
	4. MIDLAND COUNTIES	5	10	3 more.	128	− 1	17·4	− 3·5	30	+ 4	37	+ 8	1245	+ 95	35	+ 2
	5. ENGLAND, SOUTH -	5	16	9 more.	113	−12	15·9	− 3·8	22	− 6	26	− 7	1477	+204	41	+ 5
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	6	21	10 more.	149	− 4	33·6	− 1·7	21	− 4	27	− 2	1255	+ 88	34	+ 2
	7. ENGLAND, N.W. - -	6	16	7 more.	149	+ 9	26·5	+ 1·9	25	+ 1	31	+ 1	1245	+ 86	34	+ 2
	8. ENGLAND, S.W. - -	6	23	12 more.	135	− 8	21·0	− 7·5	24	− 7	29	− 6	1465*	+ 86	41	+ 2
	9. IRELAND, NORTH -	7	15	7 more.	164	− 2	28·0	+ 1·5	28	+ 7	34	+10	1119	+ 59	31	+ 2
	10. IRELAND, SOUTH -	5	11	4 more.	144	− 7	28·6	+ 0·4	34	+ 9	41	+10	1219	− 15	34	0
	— CHANNEL ISLANDS -	5	16	8 more.	132	−21	19·3	− 3·3	28	− 4	35	− 6	1758	+139	49	+ 4

Bright Sunshine.—For several of the stations there are no "mean" values available, and the "difference from the mean" in some of the districts is consequently that of only a few of the stations.

General Remarks.

Weather during this week became cold, wet, and very unsettled, and the air raw; sharp ground frosts occurred at times. Thunderstorms occurred very frequently, and in almost all parts of the Kingdom.

Temperature was below its mean value in all districts excepting England S. and the Channel Islands—the deficiency being greatest in Scotland and Ireland, where it ranged from 2° to 3°. The highest of the maxima occurred during the first three days, and ranged from only 58° in Scotland N., to 64° or 65° in the north of England, and to 68° over our midland, eastern, and southern counties. The lowest of the minima occurred on Friday or Saturday, when the thermometer went down to 28° in Scotland E., 30° in Scotland N., and 33° over our Midland Counties and England S.W. In the Channel Islands, however, the minimum was only 48°.

Rainfall was in excess everywhere; in England S.W. the excess was 1·2 ins., in Scotland W. 1·0 in., and in Scotland N., England N.W., and the Channel Islands 0·8 in., while in England N.E. the excess was only 0·1 in.

Bright Sunshine was in excess of the mean over Ireland, and the north-eastern, eastern, and midland parts of Great Britain, but slightly deficient elsewhere. The largest number of hours recorded were 34 in Ireland S. and 33 in England E., while the smallest was 12 in Scotland N. The greatest excess was 9 hours in Ireland S., while the greatest deficiency was 6 to 7 hours in the southern and south-western parts of England.

Barometer and Wind.—During the earlier part of the week the barometer was highest over France and Germany, lowest off our north-western and northern coasts, and the gradients were somewhat steep. The prevailing winds were consequently South-Westerly and Westerly, and were strong on exposed parts of the coasts; the weather, however, was fine at the southern stations, and showery in the north-west and north. After Wednesday the distribution of pressure became less regular, and between Thursday evening and Saturday a large depression moved slowly over the Kingdom from the north-westward, causing a well-developed cyclonic circulation over our area, and bringing heavy rain to all parts of the Kingdom, and thunderstorms and hail to many places, with a decided fall of temperature.

* This value has been altered slightly owing to the receipt of further information.

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II.—DATA from which the SUMMARY on page 229 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°				Inches	Inches.				
0. SCOTLAND, N.	Sumburgh Head ⚓	53	40	51·4	41·7	46·3	− 2·2	31	1	6	1·39	+0·54	*	*	*	*
	Stornoway ⚓	55	35	51·1	41·9	46·3	− 2·5	31	0	7	1·85	+0·83	19·7	− 3·3	24	− 5
	Wick ⚓	56	31	53·0	40·1	46·2	− 3·2	37	5	6	0·89	+0·28	*	*	*	*
	Lairg ⚓	57	30	? 52·5	? 37·2	? 44·9	? − 3·9	? 38	? 11	7	? 0·92	? +0·09	*	*	*	*
	Glencarron ⚓	56	36	51·2	38·7	44·7	− 3·7	33	9	7	2·86	+1·12	*	*	*	*
	Fort Augustus ⚓	56	35	51·5	41·0	46·0	− 3·6	32	3	7	2·46	+1·51	6·7	?	8	?
	Fort William ⚓	58	40	52·5	42·6	47·3	− 3·2	37	0	6	3·78	+1·19	9·4	?	12	?
1. SCOTLAND, E.	Nairn ⚓	59	28	54·9	38·6	46·4	− 3·7	45	10	5	0·77	+0·17	*	*	*	*
	Aberdeen ⚓	60	32	54·7	41·9	48·0	− 2·4	42	0	4	0·44	−0·26	28·9	+ 5·4	36	+ 6
	Braemar ⚓	55	33	49·3	39·0	43·9	− 2·9	26	8	6	1·53	+0·68	12·3†	?†	15†	?†
	Ochtertyre ⚓	60	35	53·9	43·9	48·7	− 1·1	47	0	7	1·75	+0·88	*	*	*	*
	Leith ⚓	61	31	56·1	43·1	49·3	− 2·6	51	0	7	0·60	+0·12	*	*	*	*
	Marchmont ⚓	60	33	54·0	39·9	46·6	− 2·8	41	6	6	0·56	−0·19	26·0	?	32	?
2. ENGLAND, N.E.	Alnwick Castle	62	32	55·1	41·6	48·0	− 2·0	44	1	6	1·54	+0·91	*	*	*	*
	Durham	61	38	56·3	44·1	49·9	− 0·8	55	0	4	0·66	+0·06	23·8	+ 2·9	29	+ 3
	Shields	62	41	56·9	45·0	50·7	− 0·9	61	0	4	0·74	+0·11	*	*	*	*
	Scarborough ⚓												*	*	*	*
	York ⚓	65	40	59·6	43·4	51·1	− 1·1	64	0	4	0·49	−0·11	34·4	+13·7	42	+16
	Spurn Head ⚓	65	38	59·7	45·7	52·4	− 1·3	73	0	3	0·17	−0·34	*	*	*	*
3. ENGLAND, E.	Hillington ⚓	66	39	60·4	43·2	51·4	− 1·1	66	0	4	0·82	+0·21	31·5	+ 6·8	39	+ 9
	Yarmouth	66	42	59·7	46·4	52·7	− 0·9	75	0	4	1·24	+0·56	*	*	*	*
	Geldeston	66	41	61·4	44·9	52·8	− 0·7	76	0	4	1·11	+0·51	39·7	+ 9·7	49	+13
	Cambridge	68	39	62·7	43·7	52·7	− 0·5	75	0	4	0·62	+0·11	32·7	+ 4·7	40	+ 6
	Rothamsted	64	39	58·7	44·9	51·5	− 0·7	67	0	4	1·12	+0·45	26·0	?	32	?
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	65	35	60·0	41·7	50·4	− 1·6	60	1	3	0·35	−0·28	*	*	*	*
	Loughborough	67	39	61·9	44·7	52·9	+ 0·3	76	0	4	0·60	−0·06	*	*	*	*
	Stamford (Ketton Hall)	66	37	60·4	42·1	50·8	− 1·8	62	0	4	0·65	−0·03	*	*	*	*
	Cheadle ⚓	63	37	57·0	41·5	48·9	− 1·7	50	1	5	0·96	+0·20	*	*	*	*
	Churchstoke ⚓	64	38	57·8	43·2	50·2	− 0·5	57	0	7	0·91	+0·21	30·6	+ 5·8	38	+ 7
	Hereford ⚓	68	38	60·3	42·8	51·1	− 1·3	64	0	4	0·98	+0·32	*	*	*	*
	Cirencester	63	33	58·4	40·9	49·2	− 2·4	55	3	4	1·90	+1·15	22·5	− 1·5	28	− 2
	Oxford	64	42	59·7	44·9	51·9	− 1·2	69	0	5	1·29	+0·64	26·1	+ 0·0	32	− 2
5. ENGLAND, S.	London	66	42	61·1	46·6	53·5	− 0·7	81	0	4	1·62	+1·02	27·1†	+ 5·3†	33†	+ 6†
	North Foreland	68	47	60·7	49·9	55·0	− 0·2	91	0	4	1·26	?	*	*	*	*
	Strathfield Turgiss ⚓	66	38	60·3	44·8	52·2	− 0·7	71	0	6	1·47	+0·84	*	*	*	*
	Dungeness	67	47	61·6	50·7	55·9	+ 0·8	97	0	5	1·28	+0·59	*	*	*	*
	Hastings (St. Leonards)	65	46	61·0	50·5	55·5	0·0	95	0	5	2·23	+1·50	21·5	−11·3	26	−14
	Southampton	66	42	61·9	47·1	54·1	− 0·5	85	0	5	1·80	+1·02	21·3	− 8·7	26	−10
	Hurst Castle	64	48	61·3	51·0	55·9	+ 0·8	97	0	5	1·73	+1·01	*	*	*	*
	Stowell ⚓	64	40	58·5	44·1	51·0	− 1·3	63	0	6	1·58	?	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	60	39	53·1	42·7	47·7	− 3·1	40	0	7	5·35	+3·63	*	*	*	*
	Glasgow	57	41	52·2	44·2	48·0	− 2·1	42	0	7	1·60	+0·72	14·4	− 4·3	18	− 6
	Ardrossan	57	39	53·7	43·3	49·8	− 2·1	55	0	4	0·77	−0·13	*	*	*	*
	Glenlee ⚓	60	37	53·8	42·4	47·8	− 2·0	41	0	7	2·00	+0·70	*	*	*	*
	Douglas (Isle of Man)	61	36	54·9	45·0	49·7	− 1·8	54	0	5	0·77	−0·15	28·0	+ 0·7	35	+ 1
7. ENGLAND, N.W.	Newton Reigny	61	34	54·7	42·4	48·3	− 2·1	44	0	7	2·14	+1·37	18·4	− 6·6	23	− 8
	Stonyhurst	61	40	55·7	44·9	50·0	− 1·4	56	0	6	1·92	+0·72	30·0	+ 6·4	37	+ 8
	Blackpool ⚓	64	46	57·3	50·1	53·5	+ 1·5	81	0	6	2·65	+1·75	21·0	− 2·4	26	− 4
	Manchester	63	39	57·7	42·9	49·9	− 1·7	55	0	6	1·33	+0·43	*	*	*	*
	Liverpool Obsy. (Bidston)	63	41	56·7	46·4	51·3	− 1·7	65	0	6	1·30	+0·42	*	*	*	*
	Llandudno ⚓	63	42	57·2	47·3	52·1	− 1·9	71	0	6	1·29	+0·50	29·2	+ 8·6	36	+10
	Holyhead	61	45	56·6	49·1	52·7	− 1·6	75	0	6	0·76	−0·07	*	*	*	*
8. ENGLAND, S.W.	Llandovery	63	33	58·1	40·3	48·8	− 3·8	55	5	7	2·20	+1·04	*	*	*	*
	Pembroke	60	47	57·4	51·3	54·2	0·0	85	0	7	1·63	+0·71	22·0	− 5·7	27	− 7
	Arlington (N. Devon)	60	40	55·6	43·9	49·5	− 3·2	53	0	7	4·21	+3·04	*	*	*	*
	Cullompton ⚓	66	36	60·4	43·7	51·7	− 1·0	68	0	6	1·84	+0·94	20·7	− 5·0	25	− 8
	Falmouth	63	44	59·0	48·0	53·2	− 1·6	78	0	5	1·79	+0·54	26·2	− 1·8	32	− 4
	Plymouth															
	Prawle Point	61	46	58·1	49·9	53·8	− 0·9	83	0	3	1·80	+1·08	*	*	*	*
9. IRELAND, N.	Malin Head	57	44	52·6	46·4	49·4	− 1·4	52	0	7	1·68	?	*	*	*	*
	Londonderry	58	39	54·9	43·7	49·0	− 2·6	49	0	7	1·99	+1·09	*	*	*	*
	Edenfel (Omagh)	58	38	53·4	43·1	48·0	− 1·8	42	0	7	2·24	?	*	*	*	*
	Mullaghmore	62	45	54·9	47·3	50·9	− 2·4	62	0	7	1·73	+0·46	*	*	*	*
	Belmullet	58	44	54·0	47·3	50·5	− 3·6	60	0	7	1·36	?	*	*	*	*
	Markree Castle	60	40	55·0	42·7	48·6	− 2·1	46	0	7	2·01	+1·23	28·9	+ 8·9	36	+10
	Brookeborough	59	36	54·7	42·8	48·5	− 1·1	46	0	7	1·63	+0·74	*	*	*	*
	Armagh	61	36	56·1	42·6	49·0	− 1·6	49	0	7	0·87	+0·25	28·4	+ 6·9	35	+ 8
	Donaghadee	61	43	55·6	46·9	51·0	− 0·8	63	0	7	0·49	−0·20	*	*	*	*
	Edgeworthstown	61	37	55·9	41·9	48·6	− 1·8	46	0	5	0·99	+0·27	*	*	*	*
10. IRELAND, S.	Dublin	64	42	57·0	45·8	51·1	− 1·8	64	0	5	0·46	−0·09	38·3	+11·8	47	+14
	Parsonstown	63	38	55·9	43·1	49·2	− 2·0	50	0	6	1·00	+0·30	32·5	+ 8·3	40	+11
	Kilkenny	64	36	56·6	41·3	48·6	− 3·9	49	2	4	0·26	−0·36	*	*	*	*
	Waterford	63	37	58·2	42·4	49·9	− 3·8	55	0	4	0·46	−0·33	*	*	*	*
	Roche's Point	63	44	57·0	47·9	52·2	− 1·8	71	0	5	0·61	−0·28	*	*	*	*
	Valencia	61	45	56·3	48·6	52·3	− 2·3	72	0	6	2·25	+1·17	29·8	+ 5·5	37	+ 6
	Killarney	63	44	57·4	44·8	50·8	− 2·2	62	0	6	2·23	?	*	*	*	*
	Foynes	64	42	56·0	44·8	50·1	− 2·1	57	0	6	1·65	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	64	48	59·6	51·6	55·4	− 0·8	94	0	5	1·63	+0·78	*	*	*	*
	Jersey	72	49	64·7	52·6	58·4	+ 0·8	115	0	5	1·54	+0·74	30·0	− 3·5	37	− 6

Stations marked ⚓ are in connection with the Royal Meteorological Society, and those marked ⚓ with the Scottish Meteorological Society.

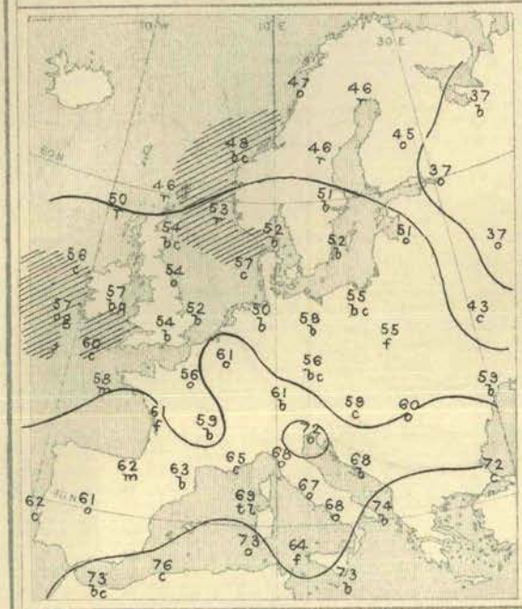
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory and the Meteorological Office, Victoria Street. For additional Reports of Sunshine see last page.

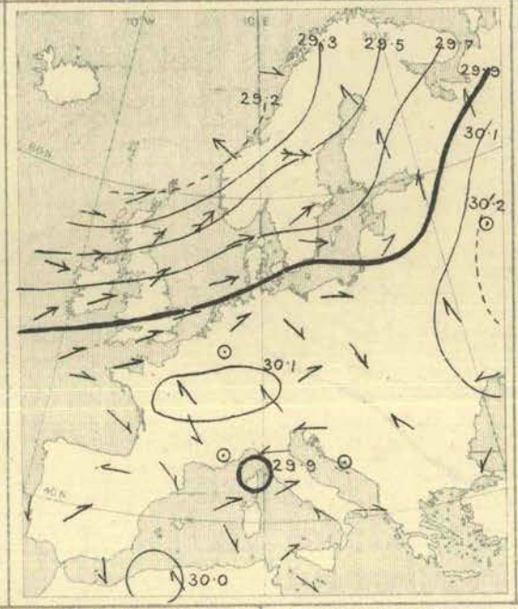
III.—SUMMARY OF WEATHER OVER EUROPE.

Sunday, 25th September.

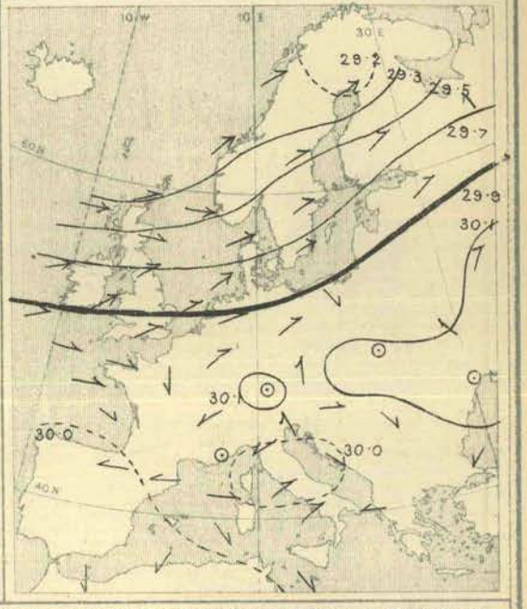
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather fair over the greater part of the United Kingdom, but rainy in the Shetlands, the Hebrides, and the north of Ireland; dull at many of the Continental stations, with rain over the south of Norway and the Gulf of Bothnia; fine and bright in Denmark and the southern parts of Sweden, Russia, and France, as well as at some of the German stations. A little rain falling during day in the extreme north-west and north of our Islands generally, as well as at some of the inland English and French stations, a heavy fall at Christiansund; thunderstorm at Biarritz.

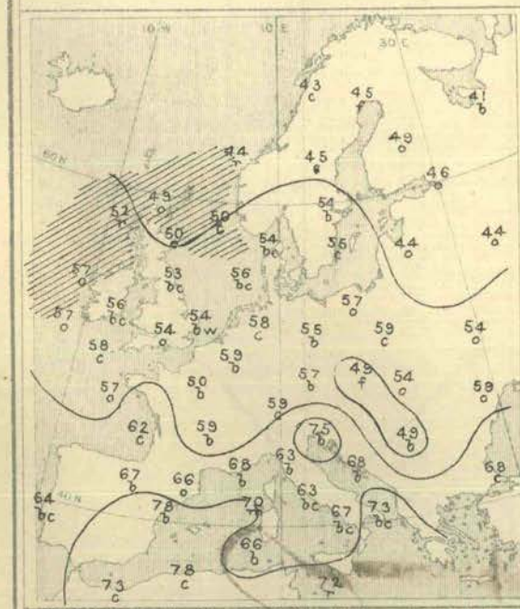
Temperature in morning, highest, 78° at Barcelona, 76° at Algiers, 74° at Brindisi, and 73° at Oran and Malta; above 65° at most of the Mediterranean and Adriatic stations. Lowest, 33° at Kharkov, 37° at Archangel, Moscow, and St. Petersburg, and 43° at Uleaborg, Kiev, and Nicolaieff; below 50° over Russia and the northern parts of Scandinavia generally. Rising during day to between 60° and 66° in all but the extreme northern and north-western parts of the United Kingdom, reaching 68° at Jersey, 75° to 80° at several of the French and Italian stations, 88° at Cagliari, and 90° and more over central Algeria.

Wind moderate to strong from the South-Westward over our Islands, Scandinavia, Denmark, and the Baltic, with a gale in the south of Norway; light from the Southward or South-Eastward over the northern parts of Russia; light and variable over the greater part of central, southern, and eastern Europe, but Easterly or South-Easterly in the west of France. Subsequently veering to the Westward at the Irish and Scotch stations generally and moderating in force, but becoming strong from South-West and South over northern Europe, and freshening from North-East over northern Italy.

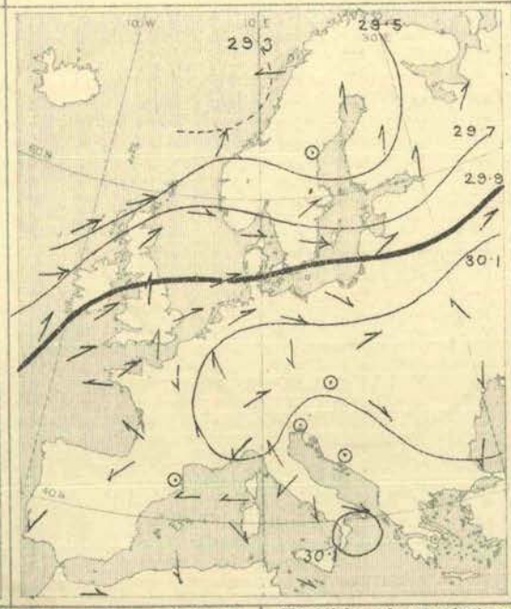
Barometer highest, 30·2 ins. and upwards in a large anticyclone over Russia, and 30·1 ins. and upwards in another lying over central France and south Germany. Lowest, 29·2 ins. and less in a large depression lying to the northward of our Islands and the westward of Norway; gradients rather steep over the United Kingdom and the North Sea. Depression subsequently travelling away to the north-eastward, and barometer rising in almost all parts of north-western Europe, falling fast over Lapland.

Monday, 26th September.

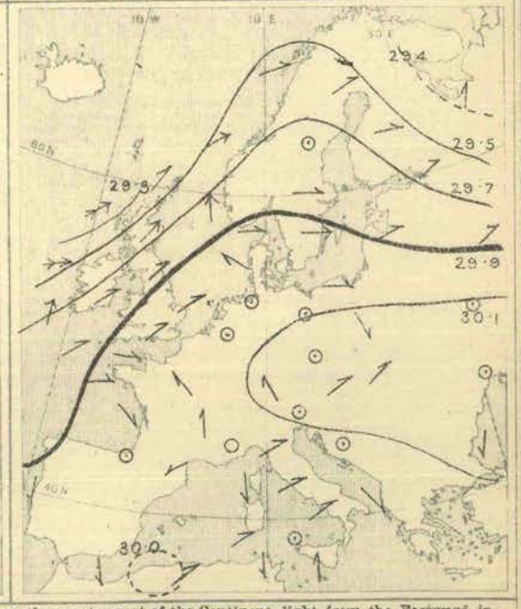
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the greater part of south-eastern, southern, and western Europe, including a large portion of England and the east of Ireland, cloudy or overcast in the far west, and over northern Europe, with rain in several places. A considerable fall of rain later at our western and northern stations, and a little in several parts of northern Europe, and at Cuxhaven, weather fine elsewhere and bright in many places, but a thunderstorm occurring at Biarritz.

Temperature lower over western Europe, but higher over Russia than on previous morning. Readings now exceeding 70° on the southern and western shores of the Mediterranean only, but exceeding 60° over southern and south-western Europe; exceeding 50° over nearly the whole of the British Isles, North Sea, and Germany, and lower elsewhere. Lowest of all, 41° at Archangel, 43° at Bodö and Kharkov, 44° at Moscow and Christiansund, 46° at St. Petersburg, 48° at Sumburgh Head and York. Rising later to 100° and more over central Algeria, to between 75° and 85° over the greater part of France and Italy, and to 72° at Jersey, but falling to reach 70° over the greater part of the United Kingdom and Germany, and not exceeding 52° at Sumburgh Head.

Wind light and anticyclonic over the greater part of the Continent, light from the Eastward in the west of France and in the English Channel; moderate to strong from the Southward over Ireland, light to moderate Southerly and South-Westerly over north Britain, moderate to strong Westerly on the eastern shores of the North Sea, South-Westerly over the Baltic, and very light Easterly in Lapland. Rising to a gale from South and South-West in Ireland and Scotland later, and becoming very variable in the Channel.

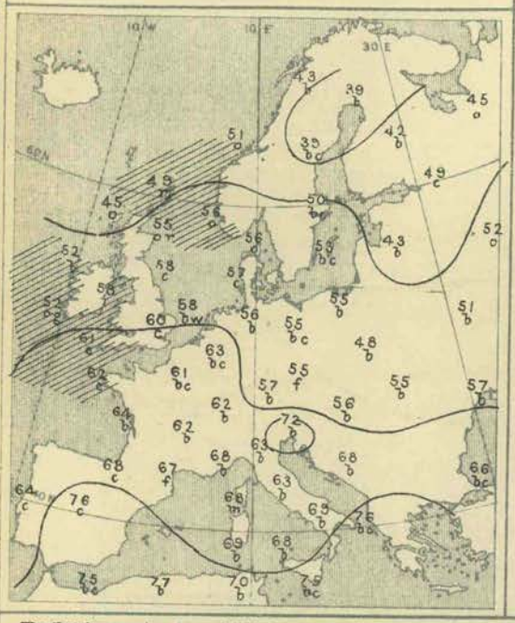
Barometer highest, 30·2 ins. and more over the south of Russia, and exceeding 29·9 ins. over Spain, France, and central Europe. Lowest, about 29·3 ins. and less over Lapland, and 29·5 ins. and less off the extreme north-west of Scotland. Falling fast on our north-west coasts later, as a new depression approached those regions from the south-westward.

Judd & Co. Ltd. Lith. 63, Carter lane, Doctors' Commons.

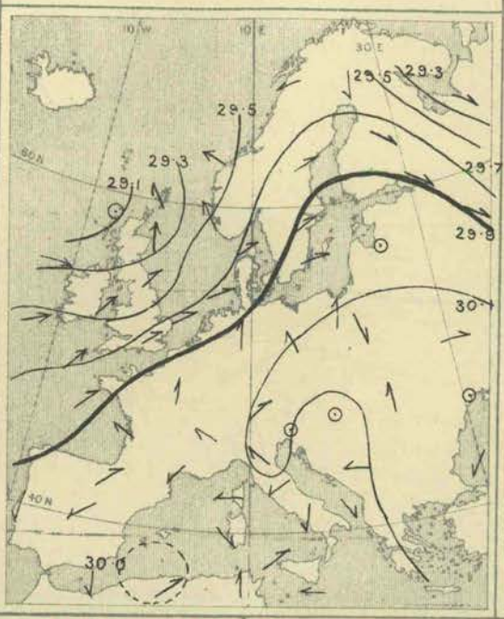
III.—SUMMARY OF WEATHER OVER EUROPE.

Tuesday, 27th September.

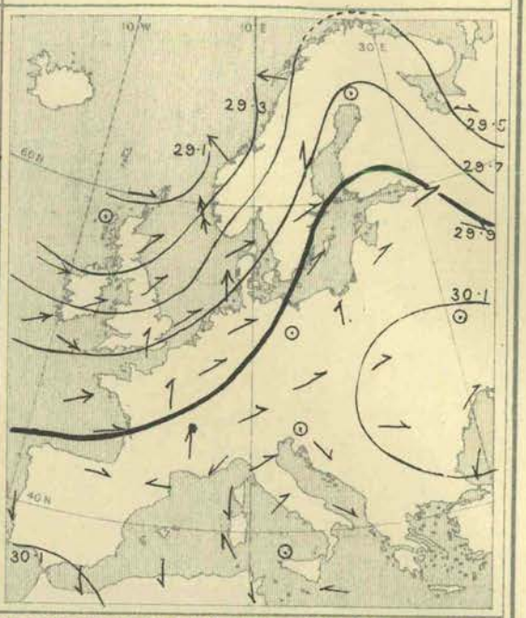
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over northern, eastern, central, and southern Europe, cloudy in the west; squally, unsettled, and showery in the west and north of the British Islands. Becoming showery and unsettled later over the United Kingdom generally, Norway, the North Sea, and the north of France; lightning at night in Kent and Surrey, but weather remaining fine in the south of France. No less than 2·4 ins. of rain at Nemours (Algeria).

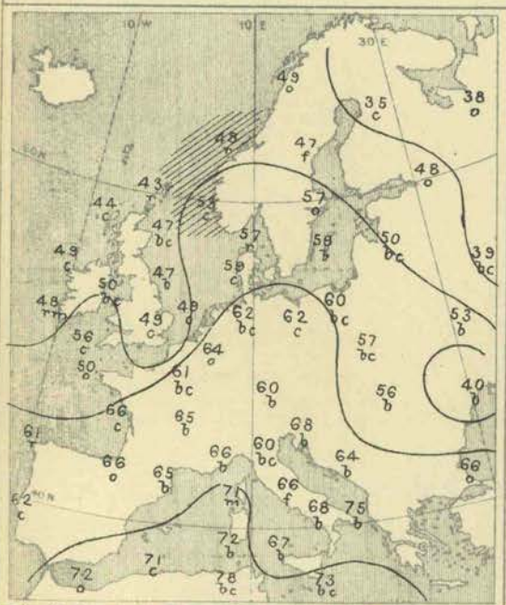
Temperature changing fitfully; considerably higher over England than at 8 a.m. on previous day. Morning readings, 70° and more on the south side of the Mediterranean, and exceeding 60° over southern Europe generally, as well as at some stations in the west and north of France, and the south and south-east of England. Lowest, 39° at Haparanda and Hernösand, 42° at Kuopio, 43° at Riga, 45° at Archangel and Stornoway, 49° in the north-east of Scotland. Rising later to between 90° and 95° over Algeria, to between 78° and 82° over the greater part of Italy and France, to about 75° over Germany, and to between 60° and 68° over England; not touching 60° in the west and north of Scotland.

Wind very light and anticyclonic over the greater part of Europe; chiefly Easterly over the northern parts of the Mediterranean, South-Easterly to Southerly in the west of France; Westerly to Southerly over the United Kingdom (a gale in the west) and South-Easterly in Norway; light North-Westerly winds prevalent over Finland and the north of Russia; South-Easterly to Westerly in north Germany. Becoming more generally Westerly in our Islands later, but variable in some localities; shifting to West in the west of France also, and falling calm over Finland.

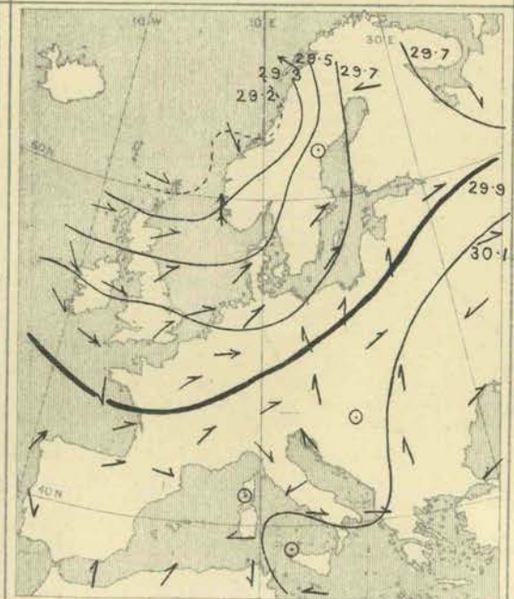
Barometer highest, 30·1 ins. and more to 29·9 ins. all over south-eastern, central, southern, and south-western Europe, and the Mediterranean. Lowest, (1) 29·1 ins. and less in a somewhat complex depression lying to the north-westward of the Hebrides, and stretching eastwards over Scotland; (2) 29·3 ins. and less in another over the White Sea and north Russia. Rising in Ireland, Scotland, and the north of Russia later, as the depression moved north-eastwards, but falling over England, as some secondaries moved eastwards over that country.

Wednesday, 28th September.

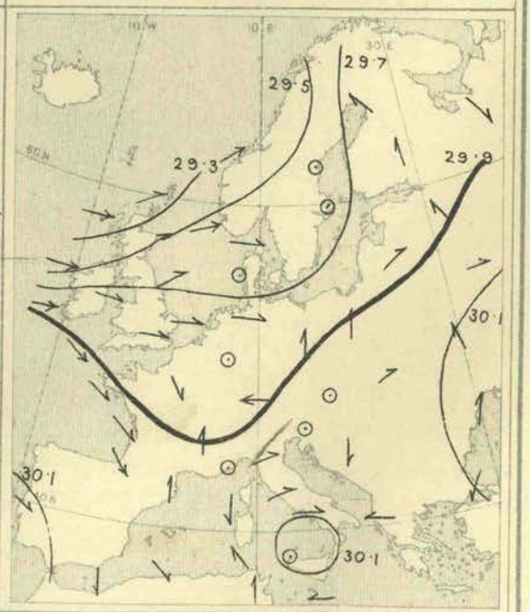
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning remaining fine and bright over eastern, central and southern Europe, but unsettled in the west, north-west, and north, though temporarily bright in many parts of England. Squally and showery later in the west and north of our Islands, in Norway, and Sweden—amounts of rain considerable at some northern stations; lightning seen in the south and east of England, and in Holland. Thunder, lightning, and considerable rain in the south of France, showers locally in Algeria and Tunis.

Temperature falling over the British Isles and in Norway. Morning reading still exceeding 70° on the southern side of the Mediterranean, and exceeding 60° over the greater part of France and Germany, lower elsewhere; below 50° over Ireland and Scotland. Lowest of all, (1) 35° at Haparanda and Uleaborg, 38° at Archangel, and 39° at Moscow; (2) 41° at Parsonstown, 42° to 44° in the Shetland Islands and the north of Scotland, 45° at Leith, 47° to 49° over central England. Failing to reach 60° in our Islands (except in London) during day, but exceeding 70° in Germany, and ranging from 70° to 79° over the southern parts of France, 77° to 82° in Italy, 85° to 90° over central Algeria.

Wind very light and variable over south-eastern Europe, light from South and South-East over Germany, and light to moderate Southerly over the Baltic; North-Westerly to Westerly over Ireland and the Bay of Biscay (fresh at the northern stations), Westerly over England and Scotland, Southerly, moderate to strong, on the eastern shores of the North Sea (a Southerly gale at Skudesnaes). Becoming strong and squally from North-West and West over the north-western parts of Ireland later, and gale at Skudesnaes moderating, and wind veering.

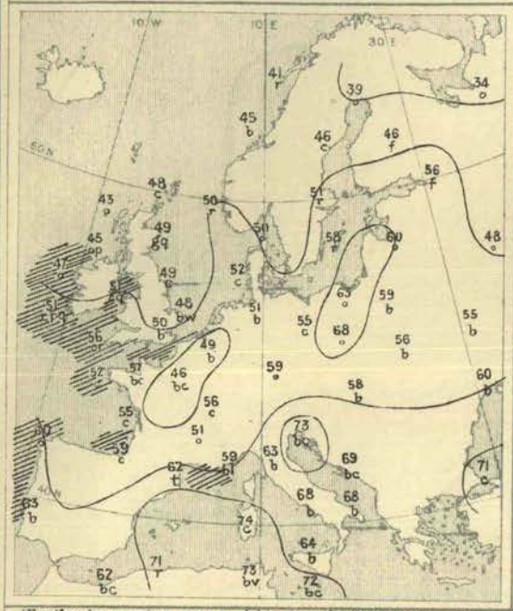
Barometer highest, 30·1 ins. and more to 30·0 ins. over south-eastern and southern Europe, and exceeding 30·0 ins. over Spain and Portugal. Lowest, 29·2 ins. and less over the Shetlands and off the north-west of Norway, and 29·7 ins. and less over northern Russia. Inclined to fall decidedly on our western coasts later, but rising over the North Sea, Denmark, and the southern half of Scandinavia.

III.—SUMMARY OF WEATHER OVER EUROPE.

Thursday, 29th September.

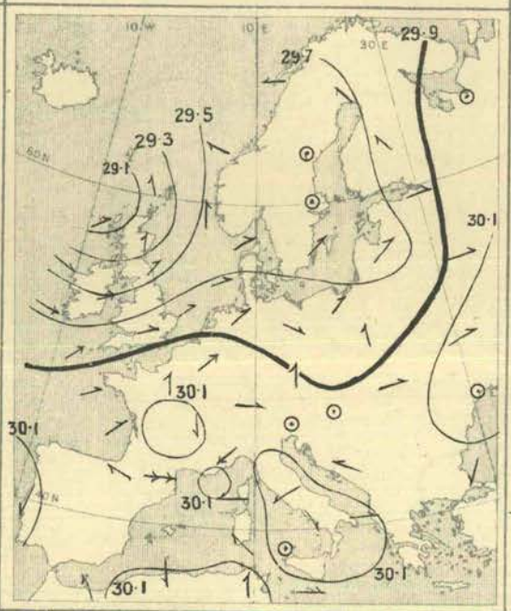
Temperature and Weather.

8 a.m.

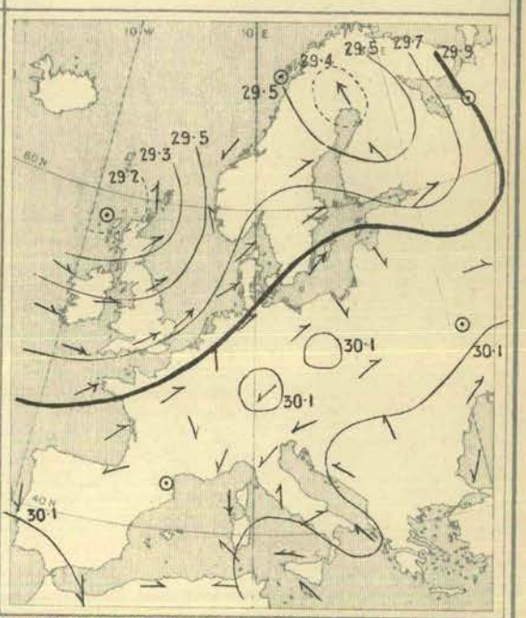


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning very variable over the British Isles and north-western Europe generally—sky clear in some places—cloudy or overcast elsewhere, with rain in many localities—general appearance unsettled; continuing fine and bright over south-eastern, southern, and south-western Europe as a whole, but thunderstorms prevalent in the southern parts of France. Heavy rain at Ulcaborg, Oxö, and over the southern half of England later—the amounts collected being 1·5 ins. at Prawle Point, 0·7 in. at Hurst Castle and Oxford, and 0·9 in. in London. Fall heavy at several stations in south of France, and also at Odessa.

Temperature now fallen over France; no further change in our Islands. Morning readings exceeding 70° on the southern and western sides of the Mediterranean and the north of the Adriatic, exceeding 60° over Spain, Italy, and many parts of Germany, exceeding 50° over southern Russia, Hungary, and on the Atlantic shores of the British Islands and western Europe. Lowest, 34° at Archangel, 39° at Haparanda, 41° at Bodö, 43° at Stornoway, 45° to 48° over central England, and 46° at Paris. Rising later to 60° and more in the south of England, over Germany, and the northern half of France, and to upwards of 70° in the south of France.

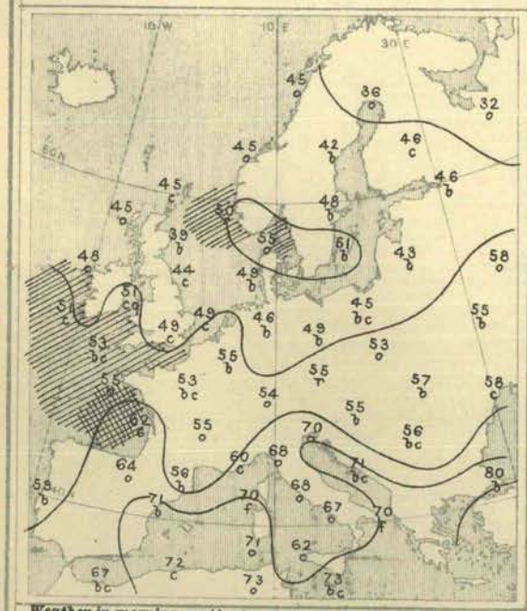
Wind very light and variable over southern and south-eastern Europe, but fresh to strong and variable in the south of France. Cyclonic over the United Kingdom—Westerly in Ireland, South-Westerly to Southerly over Great Britain, and strong in force. South-Easterly to Easterly, light, over the northern half of Norway. Blowing a strong gale from South-West and West over the eastern half of the Channel later, and a strong, squally breeze over our southern counties, but falling to a light or moderate breeze in Scotland. A new cyclonic circulation appearing over the northern extremity of the Gulf of Bothnia.

Barometer highest, 30·1 ins. and more to 30·0 ins. over the whole of south-western, southern, and south-eastern Europe, with the Mediterranean, and 30·2 ins. in the south of Russia; 29·9 ins. and more over the north of Russia. Lowest, 29·1 ins. and less in a depression having its centre off the north-west of Scotland and the Hebrides. Gradients rather steep over our Islands. Depression beginning to grow shallower and to move southwards later, as well as to increase in size, owing to advance of secondary systems from the westward. A new depression appearing over the east of Lapland.

Friday, 30th September.

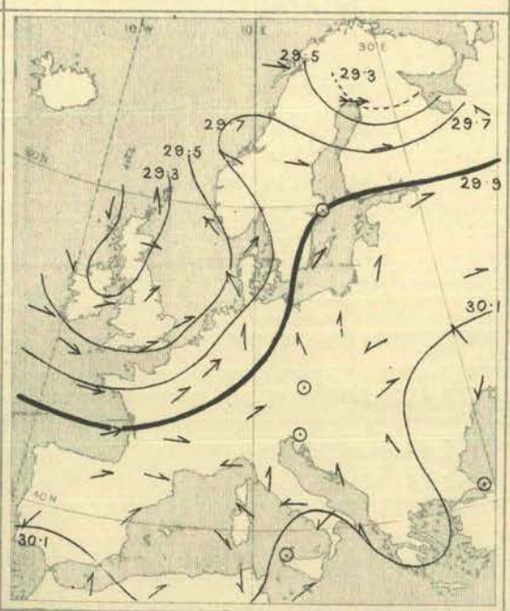
Temperature and Weather.

8 a.m.

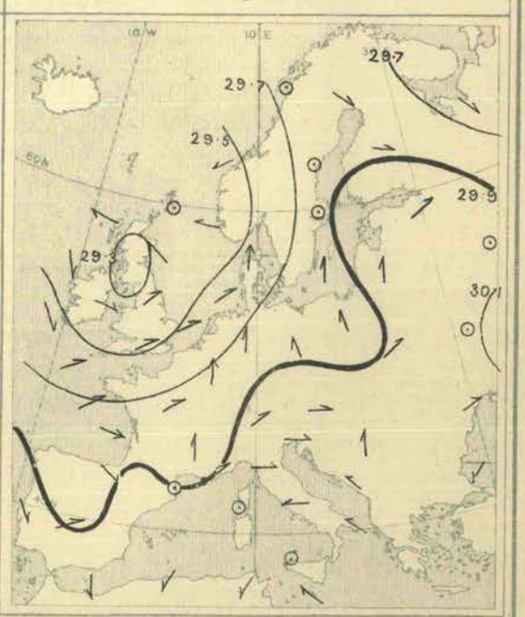


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning continuing fine and bright over eastern and south-eastern Europe, as well as on the coasts of Spain, but exceedingly changeable and unsettled over the British Islands, north-western and northern Europe; sky temporarily clear in several places, cloudy or overcast elsewhere, and rainy at many stations. Rain falling later all over the British Islands, Denmark, the Netherlands, and the north of France, amounts being heaviest in the latter regions; showers in north Germany, thunder and lightning in the north-east of Scotland and in the south of France later.

Temperature falling over the British Islands, Denmark, and Germany. Morning readings exceeding 70° on the Algerian coast and the southern parts of the Mediterranean generally, as well as at Lésina and Trieste, but below 60° at nearly all stations lying to the northward of latitude 47 N.; below 50° over the greater part of the United Kingdom, and as low as (1) 32° at Archangel, 36° at Haparanda, 40° at Ulcaborg; (2) 34° at Nairn, 39° at Aberdeen. Failing to reach 60° at any of our own stations, excepting Dungeness, during the day, but touching 70° to 75° over southern France, 75° to 80° over Italy, and 90° at Laghouat.

Wind light and variable from the Eastward over south-eastern Europe, South-Easterly over the Adriatic, and variable over the Mediterranean and Spanish Peninsula. A complex cyclonic circulation prevailing over the British Islands and north-western Europe (the wind being strong to a gale over the eastern parts of the Channel, and on the eastern shores of the North Sea), while the Westerly winds of another cyclonic system were felt over northern Europe. Gale in the Channel dying down later, but that over the Skager Rack continuing.

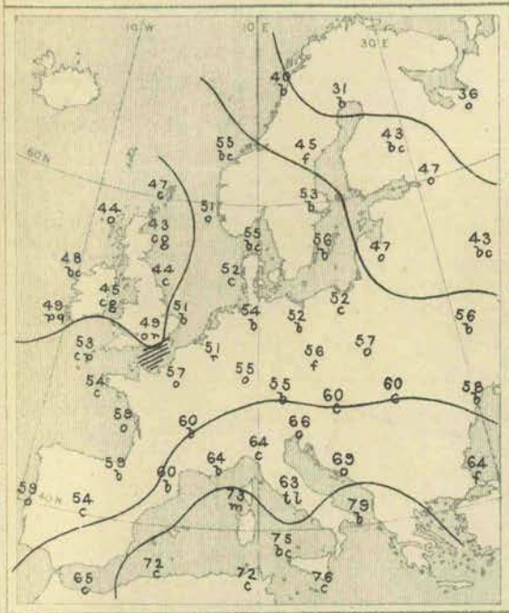
Barometer highest, 30·1 ins. and more to 30·0 ins. over south-eastern, central, southern, and south-western Europe. Lowest, 29·3 ins. and less over the northern parts of the British Islands, as well as over Lapland and the north of Finland. Changing irregularly over the British Islands later, falling over France. The depression over Scotland beginning to move south-eastwards.

Judd & Co Ltd, Lith. 63, Carter Lane, Doctors' Commons

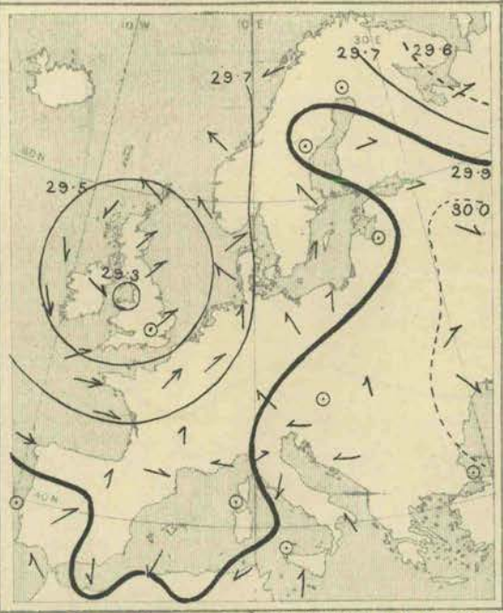
III.—SUMMARY OF WEATHER OVER EUROPE.

Saturday, 1st October.

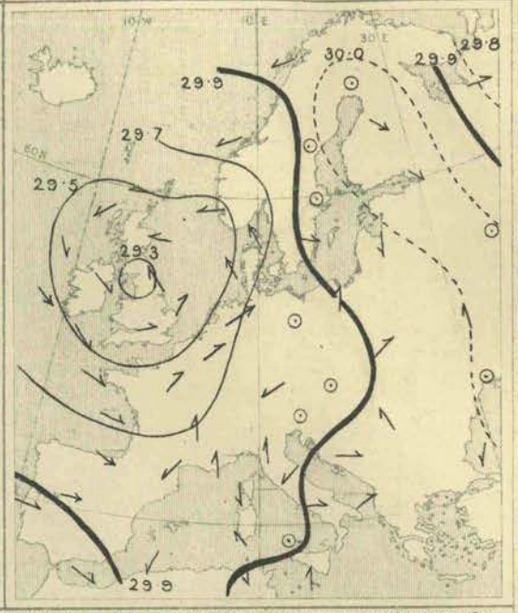
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over Finland, Russia, and south-eastern Europe, Algeria, and at some of the Baltic stations; very unsettled over the British Islands and north-western Europe, with rain in many places; thunderstorms at Cape Sicié and Rome. Rain later in all parts of our Islands, France, and Germany—amounts large in many places, especially over France and the south-east of England; hail, thunder, and lightning at Wick, and in the southern parts of the British Islands. Thunderstorms very prevalent over western Germany, the east and south-east of France, and northern Italy.

Temperature falling over England, recovering somewhat decidedly in Scotland and the north of Ireland. Morning readings exceeding 70° over the southern half of the Mediterranean, and exceeding 60° over Austria and the south of France; below 50° over northern Europe and the greater part of the British Isles. Lowest, 31° at Haparanda, 36° at Archangel, 41° at York, 42° at Nairn, 43° at Kuopio, Aberdeen, Parsonstown, and Oxford. Rising later to between 50° and 60° over the British Islands, to 70° at Wiesbaden, 70° to 75° in the south of France, 75° to 80° over Italy, and 85° to 95° over Algeria. Succeeding night cold and raw over our Islands.

Wind extremely light and variable over Russia and south-eastern Europe; variable over the Mediterranean. Cyclonic—but not strong—over the British Islands and north-western Europe (Northerly in Ireland, Southerly over England, South-Easterly in Norway), and anticyclonic over Lapland, Finland, and the Baltic. Increasing considerably later—from North and North-West in Ireland, from West in the Channel, from South-West in Holland, and from South-East over Denmark.

Barometer highest, 30·0 ins. and more to 29·9 ins. over Finland, Russia, and south-eastern Europe; 29·3 ins. and more to 29·8 ins. over the Iberian Peninsula. Lowest, 29·3 ins. and less in a depression lying over the British Islands, and having its centre near Holyhead. Latter system moving slowly to the eastward later; pressure changing little and irregularly, and secondary disturbances appearing over central Europe.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟹ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of this week barometric pressure was highest (30·1 ins. and more to 29·9 ins.) over eastern, central, southern, and western Europe, and lowest in the extreme north-west and north, in which latter regions large depressions appeared, causing strong South-Westerly winds and rain. Temperature was above its normal value, and there was a great deal of bright sunshine over the southern half of the area. On Tuesday and Wednesday some local secondary systems caused the showers to spread southwards to the northern parts of France, but it was not until Thursday that a very decided change occurred. A depression then began to move southwards and eastwards very slowly over the United Kingdom, and to spread out across central to southern Europe. Temperature at once gave way decidedly, large quantities of rain fell both over the British Islands and the Continent, with hail in many places, and thunderstorms occurred in very many localities. At the close of the week there was no indication of improvement.

BRIGHT SUNSHINE Values for the Week in addition to those found on page 230.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	22·6	?	28	?	EASTBOURNE	16·7	?	20	?
OSWALDKIRK (Yorkshire)	31·8	?	39	?	TENBY	21·3 *	?	26 *	?
WORKSOP	33·7	+11·7	42	+15	NEWQUAY	24·0	?	29	?
THURCASTON (Leicestershire)	36·1	+14·9	45	+18	TORQUAY	28·4 *	?	35 *	?
MARGATE	28·9	?	35	?	ARLEY COTTAGE (County Cavan)	25·8	?	32	?
WESTBOURNE (Sussex)	20·4 *	?	25 *	?	GUERNSEY	? 26·6 *	?	? 32 *	?
BRIGHTON	16·4	?	20	?					

* The values at Westbourne, Tenby, Torquay and Guernsey are obtained by Jordan's Photographic Recorder

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WEEKLY WEATHER REPORT.

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VOL. IX. No. 40.] *Third Series.* WEEK ENDING SATURDAY, 8TH OCTOBER, 1892 [*Price* 6*d*. [*Annual subscription, post paid*, £1 10*s*. 0*d*.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years' observations (1871-90). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the ten years 1881-90. RAINFALL.—*The Mean amounts* are those for the corresponding periods in the twenty-five years 1866-90, but the *Mean numbers of Rainy Days* are those for the ten years 1881-90, only. BRIGHT SUNSHINE.—*The Mean values* employed are those for the corresponding periods in the ten years 1881-90.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 236.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1892. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	58	37	50·2	42·9	46·5	2 below.	32	−12	0	− 4	1585	− 80	764	+215
	1. SCOTLAND, EAST	58	32	51·1	41·0	45·9	3 below.	32	−19	3	− 1	1853	−274	819	+244
	2. ENGLAND, N.E.	57	36	52·7	42·8	47·6	3 below.	39	−19	0	− 3	2113	−158	684	+183
	3. ENGLAND, EAST	60	36	53·7	42·0	47·7	4 below.	40	−24	0	− 3	2490	−142	771	+205
	4. MIDLAND COUNTIES	59	33	53·7	40·2	46·7	4 below.	40	−20	5	0	2455	127	807	+246
	5. ENGLAND, SOUTH	61	37	55·7	43·6	49·5	3 below.	53	−19	0	− 3	2738	−105	554	+135
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	56	34	50·9	42·1	46·3	3 below.	30	−27	0	− 3	2003	−178	610	+191
	7. ENGLAND, N.W.	57	33	52·2	42·6	47·2	4 below.	36	−22	0	− 2	2258	−115	579	+163
	8. ENGLAND, S.W.	59	32	54·1	42·6	48·2	4 below.	43	−26	0	− 1	2555	− 75	433	+116
	9. IRELAND, NORTH	56	34	51·6	43·3	47·3	3 below.	37	−21	0	− 1	2184	−141	484	+121
	10. IRELAND, SOUTH	58	38	52·9	42·7	47·7	4 below.	40	−28	0	− 2	2549	− 69	410	+131
	— CHANNEL ISLANDS	60	44	56·9	48·6	52·6	3 below.	74	−16	0	0	3012	+ 66	164	+ 42

Rainfall.

	DISTRICTS. (See p. 236.)	For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1892. Number of Rainy Days.	Difference from Mean.	Total Fall.	Difference from Mean.
			10ths of In.	10ths of In.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	7	25	13 more.	195	+13	38·1	+ 3·1
	1. SCOTLAND, EAST	7	21	14 more.	155	+ 5	22·2	− 1·5
	2. ENGLAND, N.E.	6	10	4 more.	148	+10	19·2	− 0·5
	3. ENGLAND, EAST	6	20	14 more.	137	0	20·3	+ 0·8
	4. MIDLAND COUNTIES	5	8	1 more.	133	+ 1	18·2	− 3·4
	5. ENGLAND, SOUTH	6	14	7 more.	119	−10	17·3	− 3·1
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	7	16	5 more.	156	− 2	35·2	− 1·2
	7. ENGLAND, N.W.	7	18	9 more.	156	+12	28·3	+ 2·8
	8. ENGLAND, S.W.	6	14	4 more.	141	− 7	22·4	− 7·1
	9. IRELAND, NORTH	7	13	5 more.	171	0	29·3	+ 1·9
	10. IRELAND, SOUTH	6	7	1 less.	150	− 5	29·3	+ 0·3
	— CHANNEL ISLANDS	7	11	2 more.	139	−17	20·4	− 3·0

Bright Sunshine.

	DISTRICTS. (See p. 236.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1892. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	−10	8	−13	1014	− 18	27	− 1
	1. SCOTLAND, EAST	8	−13	10	−18	1196	− 4	32	0
	2. ENGLAND, N.E.	13	− 9	16	− 9	1152	+ 51	31	+ 1
	3. ENGLAND, EAST	14	−14	18	−16	1371	+ 37	37	+ 1
	4. MIDLAND COUNTIES	24	0	30	0	1289	+ 97	33	+ 1
	5. ENGLAND, SOUTH	20	− 5	25	− 6	1497	+201	41	+ 6
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	11	−11	14	−14	1265	+ 77	34	+ 2
	7. ENGLAND, N.W.	17	− 4	22	− 6	1262	+ 83	34	+ 2
	8. ENGLAND, S.W.	29	+ 2	37	+ 4	1494	+ 88	41	+ 3
	9. IRELAND, NORTH	13	− 8	17	− 9	1132	+ 53	31	+ 2
	10. IRELAND, SOUTH	14	− 9	18	−13	1233	− 25	33	− 1
	— CHANNEL ISLANDS	31	+ 3	39	+ 1	1789	+143	49	+ 4

Bright Sunshine.—For several of the stations there are no "mean" values available, and the "difference from the mean" in some of the districts is consequently that of only a few of the stations.

General Remarks.

Weather was in a very rainy and unsettled condition throughout the period, the rainfall at most of the eastern and south-eastern stations, and in the north of Scotland, being unusually heavy. Thunderstorms occurred at times, especially in the south-east.

Temperature was below the mean, the deficit ranging between 2° and 4°. The highest of the maxima were recorded, as a rule, on the 4th, when they varied from 61° in England S., and 60° in England E. and the Channel Islands, to 56° in Scotland W. and Ireland N. The lowest of the minima, which were registered either at the beginning or end of the week, ranged from 32° in Scotland W. and England S.W., to 38° in Ireland S., and to 44° in the Channel Islands.

Rainfall exceeded the mean in all districts except Ireland S., the excess in Scotland N. and E. and England E. being exceptionally large.

Bright Sunshine slightly exceeded the mean in England S.W. and the Channel Islands, but was considerably less in almost all other districts. The percentage of the possible amount of duration ranged from 39 in the Channel Islands, 37 in England S.W., and 30 in the Midland Counties, to only 10 in Scotland E., and 8 in Scotland N.

Barometer and Wind.—During the greater part of the period a large and complex low pressure system lay directly over the Kingdom, producing winds varying much both in direction and force; in the west, however, they were chiefly Northerly to North-Westerly, and in the east South-Easterly to South-Westerly. During the night of the 5th-6th the South-Easterly wind increased to a gale in the east of Scotland. By the 7th the depression had moved away to the northward of Scotland, but another disturbance had appeared off our east coasts, and was travelling northwards over the North Sea. During the 8th it caused fresh to strong North-Westerly gales at most of our northern stations, and fresh or strong North-Westerly to Westerly breezes in the south and west.

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II.—DATA from which the SUMMARY on page 235 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°				Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head ℌ	53	45	51·6	46·4	48·9	+ 1·2	48	0	7	1·82	+0·92	*	*	*	*
	Stornoway ℌ	54	38	50·7	42·0	46·2	− 1·6	29	0	6	2·65	+1·60	12·0	− 9·9	16	−13
	Wick ℌ	54	39	51·3	44·4	47·8	− 0·5	41	0	7	2·21	+1·57	*	*	*	*
	Lairg ℌ	58	38	49·9	40·9	45·2	− 2·5	28	3	7	1·89	+1·01	*	*	*	*
	Glencarron ℌ	52	37	47·9	40 8	44·3	− 3·0	21	3	7	4·25	+2·41	*	*	*	*
	Fort Augustus ℌ	52	40	50·1	43·2	46·6	− 1·9	32	0	7	2·13	+1·17	2·0	?	3	?
	Fort William ℌ	52	37	50·2	42·6	46·3	− 3·2	30	0	6	2·27	+0·54	2·7	?	4	?
1. SCOTLAND, E.	Nairn ℌ	55	32	50·7	37·6	44·0	− 5·9	32	12	7	2·02	+1·44	*	*	*	*
	Aberdeen ℌ	54	41	51·6	44·3	47·8	− 1·4	41	0	5	2·08	+1·40	8·8	−13·6	11	−18
	Braemar ℌ	56	36	47·9	39·5	43·6	− 2·9	22	7	7	2·56	+1·68	0·7†	?†	1†	?†
	Ochtertyre ℌ	58	37	53·1	41·6	47·2	− 1·3	38	1	6	1.85	+0·95	*	*	*	*
	Leith ℌ	58	36	52·9	41·1	46·3	− 3·8	37	3	7	1·90	+1·46	*	*	*	*
	Marchmont ℌ	55	39	50·3	41·7	45·9	− 1·9	29	1	7	1·95	+1·23	11·5	?	15	?
2. ENGLAND, N.E.	Alnwick Castle ℌ	55	41	51·7	43·7	47·6	− 1·4	39	0	6	0·51	−0·11	*	*	*	*
	Durham ℌ	55	37	52·5	40·3	46·2	− 3·1	37	5	6	1·55	+0·91	8·2	−11·8	11	−15
	Shields ℌ	56	41	52·3	43·3	47·7	− 2·3	40	0	6	1·52	+0·91	*	*	*	*
	Scarborough ℌ	56	41	53·0	44·1	48·4	− 2·5	45	0	6	1·21	+0·53	*	*	*	*
	York ℌ	57	36	54·1	41·1	47·4	− 3·2	42	3	5	0·37	−0·22	17·1	− 2·9	22	− 4
	Spurn Head ℌ	55	42	52·3	44·4	48·2	− 4·1	43	0	5	0·88	+0·35	*	*	*	*
3. ENGLAND, E.	Hillington ℌ	55	38	52·6	41·6	46·9	− 4·1	36	1	7	1·43	+0·83	13·1	−10·4	17	−12
	Yarmouth ℌ	55	41	52·6	44·0	48·2	− 3·7	43	0	7	3·40	+2·72	*	*	*	*
	Geldeston ℌ	59	39	54·1	42·5	48·1	− 3·9	43	0	7	3·16	+2·56	12·8	−15·3	16	−19
	Cambridge ℌ	60	38	54·9	41·9	45·2	− 3·3	44	0	6	1·11	+0·61	13·1	−13·4	17	−16
	Rothamsted ℌ	57	36	54·1	40·2	46·9	− 3·7	42	5	5	0 71	+0·03	15·3	?	20	?
4. MIDLAND COUNTIES	Bawtry (Hesley Hall) ℌ	58	37	55·1	41·0	47·8	− 2·7	45	3	5	1·12	+0·48	*	*	*	*
	Loughborough ℌ	59	37	54·1	40 4	47·1	− 3·9	42	4	5	1·19	+0·54	*	*	*	*
	Stamford (Ketton Hall) ℌ	58	34	53·3	40·3	46·6	− 4·4	39	5	6	1·08	+0·41	*	*	*	*
	Cheadle ℌ	56	36	51·5	39·5	45·3	− 3·9	34	7	6	1·64	+0·87	*	*	*	*
	Churchstoke ℌ	56	33	52·0	39·0	45·3	− 4·2	36	8	7	0·75	+0·02	26·0	+ 3·0	33	+ 3
	Hereford ℌ	58	35	54·4	40·8	47·4	− 3·4	43	3	4	0·19	−0·47	*	*	*	*
	Cirencester ℌ	56	35	53·9	37·7	45·6	− 4·5	43	12	5	0·31	−0·43	26·7	+ 3·7	34	+ 4
	Oxford ℌ	57	40	54·9	42·7	48·6	− 3·0	46	0	4	0·13	−0·50	27·1	+ 2·6	35	+ 2
5. ENGLAND, S.	London ℌ	61	40	55·1	41·9	48·3	− 4·3	45	0	5	0·90	+0·30	14·7†	− 5·5†	19†	− 7†
	North Foreland ℌ	57	40	54·9	44·7	49·7	− 4·0	54	0	6	2·18	?	*	*	*	*
	Strathfield Turgiss ℌ	57	37	54·9	39·3	46·9	− 4·4	46	8	7	0·66	+0·03	*	*	*	*
	Dungeness ℌ	59	43	56·7	46·3	51·4	− 2·4	66	0	7	2·77	+2·07	*	*	*	*
	Hastings (St. Leonards) ℌ	59	41	55·5	45·0	50·1	− 3·8	57	0	7	3·13	+2·35	22·4	− 8·6	29	−10
	Southampton ℌ	60	39	57·3	43·1	50·0	− 2·8	56	0	4	0·38	−0·39	26·5	− 1·6	34	− 1
	Hurst Castle ℌ	59	45	57·1	47·0	51·9	− 1·8	69	0	6	0·66	−0·08	*	*	*	*
	Stowell ℌ	57	37	54·1	41·2	47·5	− 3·3	42	2	5	0·59	?	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ℌ	55	35	51·0	40·6	45·6	− 3·8	31	4	7	2·26	+0·51	*	*	*	*
	Glasgow ℌ	51	40	49·5	43·6	46·5	− 2·5	32	0	7	1·50	+0·65	7·7	− 9·4	10	−13
	Ardrossan ℌ	54	40	50·9	44·4	47·6	− 3 1	39	0	5	1·06	+0·16	*	*	*	*
	Glenlee ℌ	55	37	51·2	41·9	46·3	− 2·3	31	0	7	1·00	−0·30	*	*	*	*
	Douglas (Isle of Man) ℌ	56	34	51·7	39·8	45·6	− 5·1	34	6	7	2·15	+1·23	14·3	−11·2	18	−15
7. ENGLAND, N.W.	Newton Reigny ℌ	55	33	51·2	39·4	45·1	− 3·7	33	7	7	1·56	+0 80	16·1	− 6·5	21	− 8
	Stonyhurst ℌ	54	36	50·7	40·8	45·6	− 4·4	30	3	7	1·99	+0·79	22·4	+ 0 6	29	+ 1
	Blackpool ℌ	55	42	53·4	44·4	48·8	− 1·9	48	0	7	1·78	+0·86	19·5	− 2·1	25	− 3
	Manchester ℌ	57	35	52·4	41·6	46·8	− 3·5	35	1	7	1·35	+0·45	*	*	*	*
	Liverpool Obsy. (Bidston) ℌ	54	42	51·7	44·4	47·9	− 3·8	41	0	6	2·87	+2·02	*	*	*	*
	Llandudno ℌ												8·2	−10·8	11	−13
	Holyhead ℌ	57	41	53·7	44·7	49·1	− 3·9	50	0	6	1·49	+0·60	*	*	*	*
8. ENGLAND S.W.	Llandovery ℌ	58	34	54·6	39·1	46·6	− 4·7	44	8	7	2·24	+1·06	*	*	*	*
	Pembroke ℌ	56	45	53·4	46·7	50·0	− 3·1	56	0	7	0·78	−0·14	25·2	− 0·4	32	− 1
	Arlington (N. Devon) ℌ	54	36	52·0	40·6	46·1	− 5·4	35	4	7	2·31	+1·11	*	*	*	*
	Cullompton ℌ	58	32	55·5	39·3	47·2	− 4·4	48	8	6	1·27	+0·37	23·3	− 0·7	30	− 1
	Falmouth ℌ	56	43	54·0	45·0	49·4	− 4·3	52	0	5	1·17	−0·08	38·4	+11·4	49	+14
	Plymouth ℌ															
	Prawle Point ℌ	59	41	55·1	44·8	49·7	− 3·7	54	0	5	0·67	−0·09	*	*	*	*
9. IRELAND, N.	Malin Head ℌ	52	42	50·6	46·0	48·2	− 1·3	43	0	7	1·57	?	*	*	*	*
	Londonderry ℌ	56	40	52·1	43·0	47·3	− 2·8	37	0	7	2·00	+1·08	*	*	*	*
	Edenfel (Omagh) ℌ	55	39	52·0	41·9	46·8	− 2·1	34	0	7	1·16	?	*	*	*	*
	Mullaghmore ℌ	55	42	52·0	46·1	49·0	− 2·9	49	0	7	1·89	+0·66	*	*	*	*
	Belmullet ℌ	54	42	51·3	46·1	48·6	− 4·3	46	0	7	1·72	?	*	*	*	*
	Markree Castle ℌ	55	39	51·4	42·	46·9	− 2·7	34	0	7	1·91	+1·11	15·7	− 4·2	20	− 6
	Brookeborough ℌ	57	34	51·7	40·7	46·0	− 2·6	33	4	6	0·59	−0·31	*	*	*	*
	Armagh ℌ	55	37	51·7	40·2	45·8	− 3·6	34	5	6	0·68	+0·02	8·9	−11·3	11	−15
	Donaghadee ℌ	55	42	51·9	45·9	48·8	− 1·9	48	0	7	0·84	+0·16	*	*	*	*
	Edgeworthstown ℌ	56	37	51·6	40·3	45·7	− 3·6	33	5	7	0·55	−0·15	*	*	*	*
10. IRELAND, S.	Dublin ℌ	55	39	51·8	41·8	46·7	− 4·9	34	1	5	0·40	−0·20	19·0	− 6·0	24	− 8
	Parsonstown ℌ	56	39	52·1	41·7	46·8	− 3·0	35	1	7	0·91	+0·21	11·3	−11·7	14	−15
	Kilkenny ℌ	55	38	52·3	40·7	46·3	− 4·8	35	4	7	0·66	+0·04	*	*	*	*
	Waterford ℌ	58	38	54·4	40·7	47·4	− 5·2	43	4	3	0·14	−0·68	*	*	*	*
	Roche's Point ℌ	56	42	53·9	44·1	48·9	− 4·0	48	0	5	0·39	−0·49	*	*	*	*
	Valencia ℌ	55	41	53·0	44·7	48·7	− 4·7	47	0	7	0·60	−0·55	12·3	−10·8	16	−15
	Killarney ℌ	55	38	52·6	42·4	47·9	− 3·9	41	0	7	1·70	?	*	*	*	*
	Foynes ℌ	56	41	53·2	44·5	48·6	− 2·1	46	0	7	0·67	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's) ℌ	59	44	55·4	47·4	51·3	− 3·8	65	0	6	0·48	−0·36	*	*	*	*
	Jersey ℌ	60	46	58·3	49·7	53·8	− 2·1	83	0	7	1·66	+0·78	33·1	+ 1·8	42	+ 1

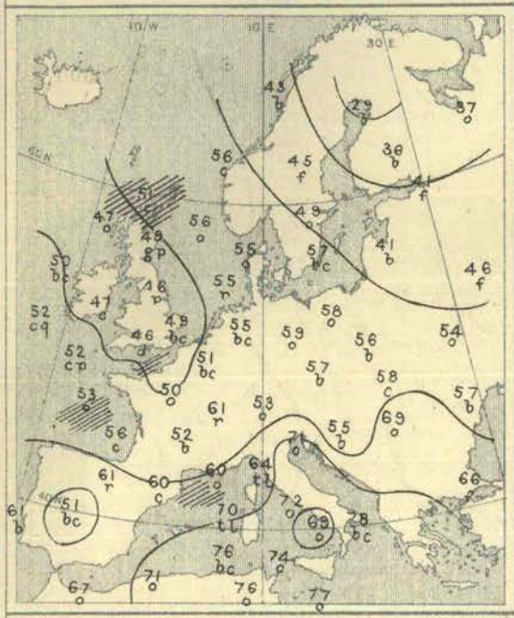
Stations marked ℌ are in connection with the Royal Meteorological Society, and those marked ♆ with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

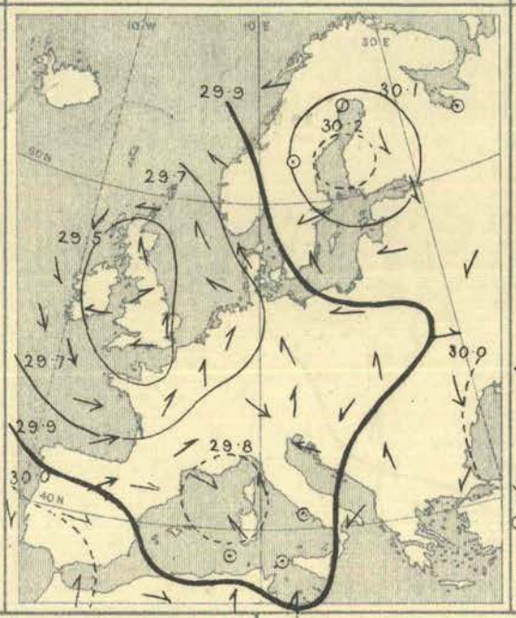
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory and the Meteorological Office, Victoria Street. For additional Reports of Sunshine see last page.

Sunday, 2nd October.

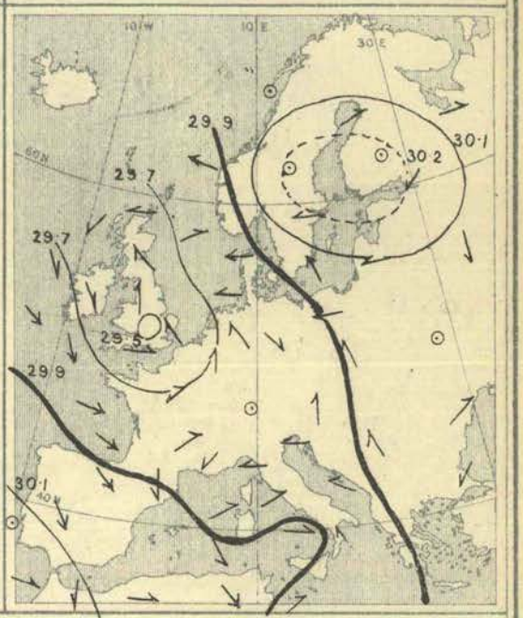
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over Lapland, Finland, Russia, Poland, and some parts of Germany, also over the southern half of the Spanish Peninsula; changeable and very unsettled over the British Islands, the North Sea, France, and western Germany, as well as over the Mediterranean. Thunderstorms at Sanguinaire and Florence. Considerable quantities of cold rain during the day over the United Kingdom, the North Sea, Germany, and the northern half of France, hail, thunder, and lightning in several places; some showers over Italy and heavy rain at Hermanstadt.

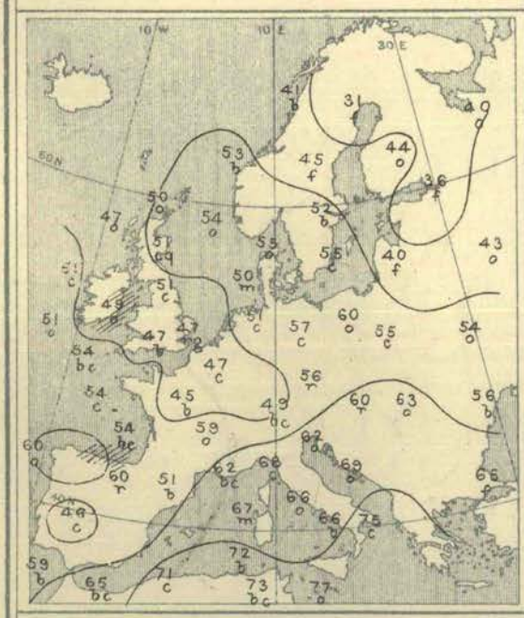
Temperature fallen over England and France; the morning readings exceeding 70° on most of the Mediterranean and Adriatic shores, but below 60° over the whole of western and central Europe; below 50° over the British Isles, and as low as (1) 29° at Uleaborg, 36° at Kuopio, 37° Archangel; (2) 41° at Loughborough, 43° at Oxford, 45° at Parsonstown and Cambridge, and 46° at Nairn, York, and in London. Rising later to between 48° and 58° over the British Islands, and to 60° and more in several parts of Scandinavia and Germany, to between 70° and 80° over Italy and the south of France, and to between 85° and 95° over Algeria.

Wind light to moderate in force generally: Northerly in Scotland and Ireland, North-Westerly to Westerly on our south-west coasts and over Brittany, South-Westerly to Southerly over the north-east of France, the Netherlands, the east of England, and South-Easterly to Easterly over Denmark and Norway. A separate cyclonic circulation prevalent over the Mediterranean, and an anticyclonic system over northern Europe. The North-Westerly wind becoming more general over Wales and the south of England later and freshening in force, while a South-Easterly breeze set in over the east of Scotland.

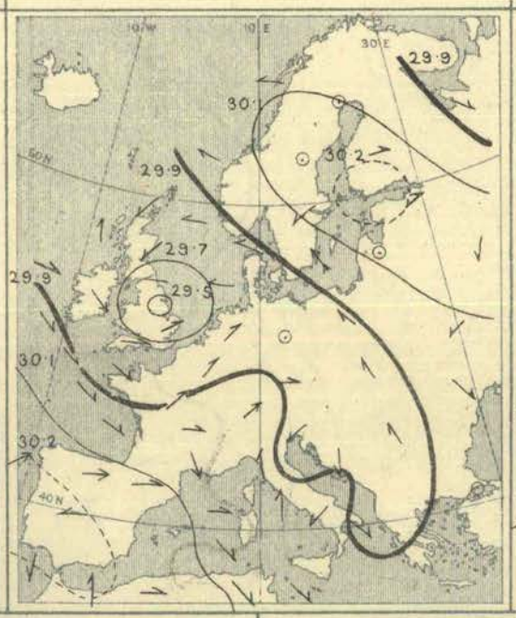
Barometer highest, 30·2 ins. and more to 30·0 ins. over Sweden, Finland, and Lapland; 30·0 ins. and more to 29·9 ins. (1) over the Iberian Peninsula, Algeria, and Tunis; (2) over south-eastern Europe. Lowest, 29·4 ins. to 29·5 ins. in a large shallow depression over the British Islands, having its centre over Northumberland. Latter system moving south-eastwards later and altering somewhat in form.

Monday, 3rd October.

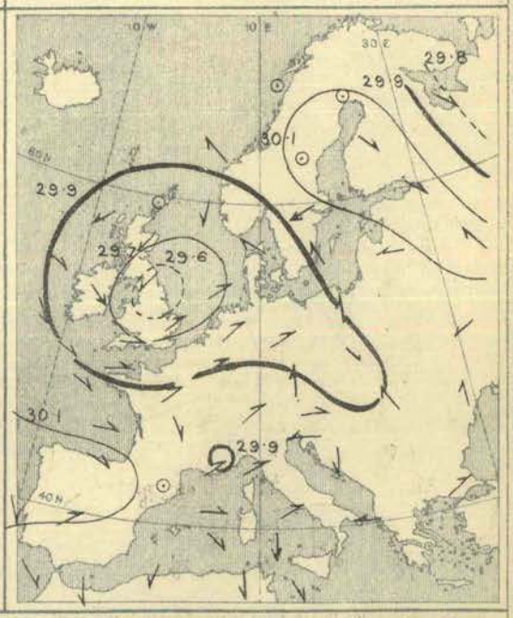
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the south of Russia, the Mediterranean, and, locally, in many parts of France and England; foggy over the northern half of Sweden, dull and very unsettled over Scotland, Ireland, the north of France, the whole of Germany and Austria. Rain falling very generally over north-western Europe later, the amounts being very large in the south of Norway and north of Denmark, and considerable over our northern and north-western districts, and at the Helder; lightning at Liverpool, thunder and lightning in the south of England and at the Helder.

Temperature changing irregularly; morning readings exceeding 70° on the southern side of the Mediterranean, and exceeding 60° over the greater part of south-eastern Europe; below 50° in many parts of our Islands and Russia, and lowest of all, (1) 31° at Haparanda, 36° at St. Petersburg, 40° at Archangel, 43° at Moscow; (2) 45° at Paris and Parsonstown, 46° at York and Loughborough; (3) 39° at Nairn. Failing to reach 60° in any part of our Islands later, and only touching 47° at Spurn Head, but rising to 70° at Perpignan and Lisbon, and 77° at Nice, to 80° and more in the south of Italy, and 85° to 93° over Algeria.

Wind very variable; anticyclonic over northern and south-western Europe, cyclonic over our Islands and their neighbourhood; South-Easterly to Easterly over the Baltic and Scandinavia, and blowing a gale in places; very variable in Scotland, Northerly and North-Westerly on our western coasts, more Westerly over the Channel and Bay of Biscay, South-Westerly over the Netherlands. Other cyclonic circulations prevailing over southern and south-eastern Europe; very little change during the day.

Barometer highest, (1) 30·2 ins. and more to 30·0 ins. in an anticyclone over northern Europe, and in another over the Iberian Peninsula and south-west of France; much lower over the British Islands, North Sea, and central Europe, and lowest of all, about 29·5 ins. over the north-east of England, 29·8 ins. and less near Buda-Pesth, 29·9 ins. and less over the Gulf of Genoa. Changing very little and irregularly later; depression in north-east remaining stationary.

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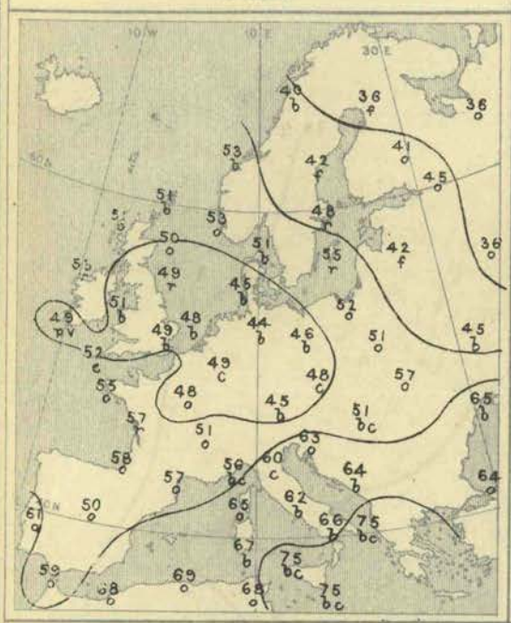
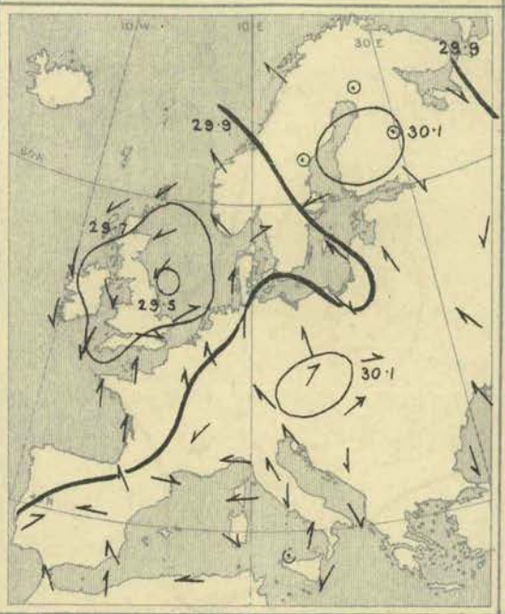
III.—SUMMARY OF WEATHER OVER EUROPE.

Tuesday, 4th October.

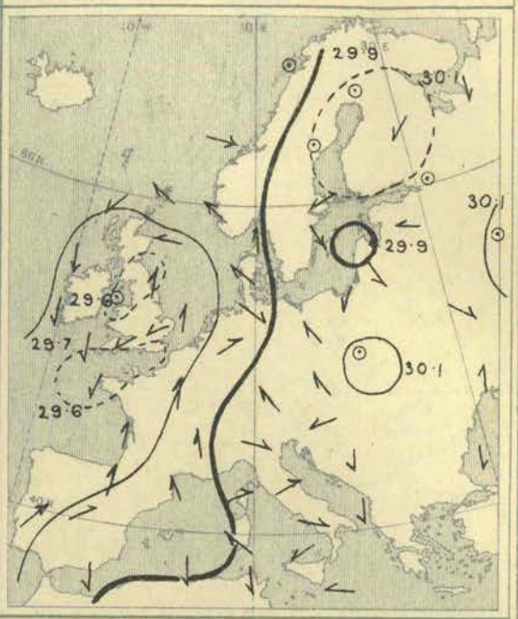
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning still fine and bright over south-eastern Europe, and temporarily clear in the Shetlands and west of Norway, as well as in several parts of Germany; extremely unsettled elsewhere, with rain in many places, thunder at the Helder, fog in the north of Sweden. Rain falling later in almost all parts of our Islands, the Netherlands, and north and west of France—the amounts being very heavy in many localities. Thunder and lightning at Malin Head and Yarmouth.

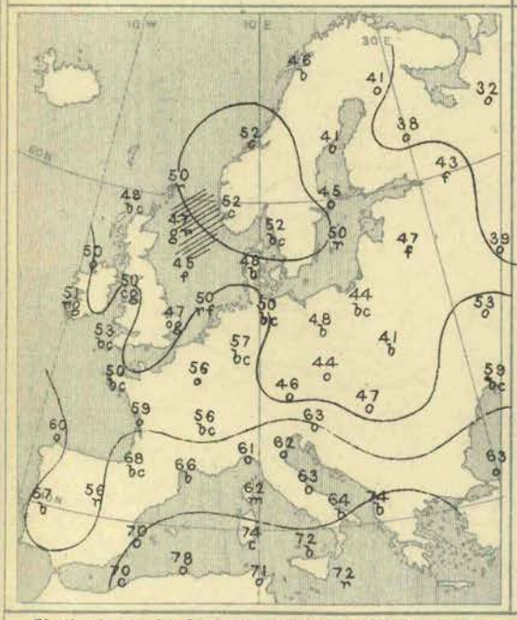
Temperature changing little and irregularly; morning readings exceeding 70° in the south of Italy only; below 50° in many parts of Europe and the United Kingdom, and lowest of all, (1) 33° at Haparanda and at Kharkov, 36° at Archangel and Moscow; (2) 44° at Loughborough, 46° at York, 47° at Parsonstown and Oxford, 48° at Paris. Rising to 61° in London later, and to 60° at Cambridge, but failing to reach that value at our other stations; touching 62° at Paris, 68° ot Nice, 74° at Perpignan, 75° to 80° in the south of Italy, and 85° to 95° over Algeria.

Wind South-Easterly over the Baltic and Norway, North-Easterly in north Britain, Northerly in Ireland, North-Westerly in Wales, Southerly in France and the Netherlands. Becoming still more variable over the United Kingdom later; blowing strongly from South-East at the mouth of the Thames, lightly from North-East and North in the Channel, but from South over France.

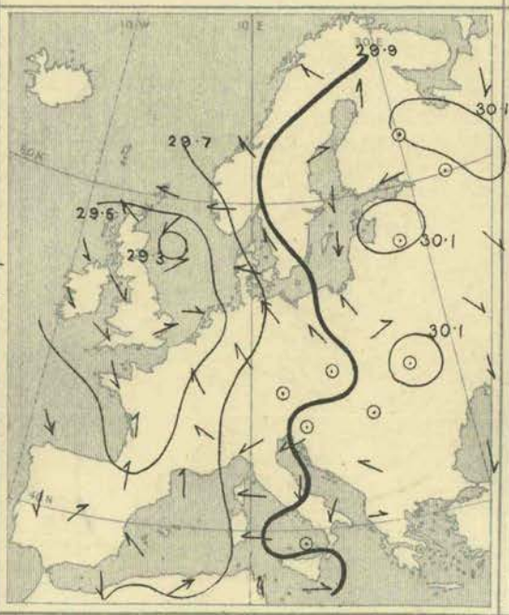
Barometer highest, 30·1 ins. and more to 30·0 ins. over northern, eastern, and central Europe, as well as over the Mediterranean. Lowest, 29·5 ins. to 29·7 ins. in a complex depression over the North Sea and British Islands. Gradients very variable. New shallow disturbance appearing over Brittany and the Channel later, and moving eastwards. Barometer falling decidedly over western Europe generally. Pressure distribution very complex.

Wednesday, 5th October.

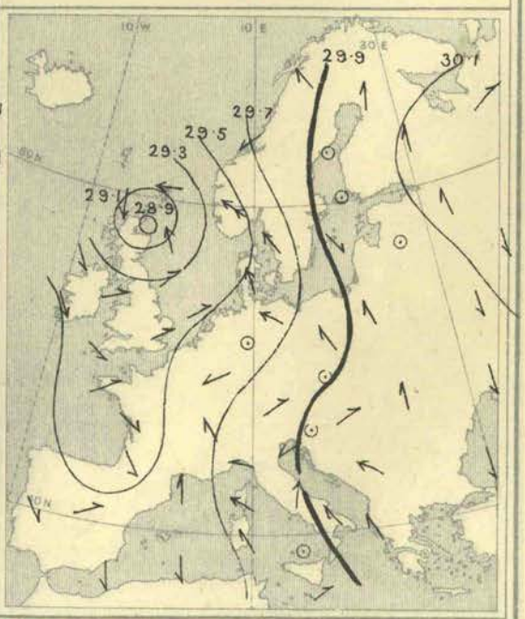
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fine in many parts of central and south-eastern Europe, but very unsettled over all the western and north-western countries; rain falling in many places, fog and mist very prevalent over England, lightning at Dungeness, but sky clear about the mouth of the Channel. Much rain falling in Scotland later, the southern half of France, and at Turin, but sky clearing over London and its neighbourhood; lunar halos reported over our south-eastern counties at night; thunderstorms in the south of France and at Algiers.

Temperature low generally over western Europe and varying rather fitfully; morning readings exceeding 70° on the southern side of the Mediterranean only, and exceeding 60° over some portions of southern Europe; below 50° over the United Kingdom as a whole, and as low as (1) 32° at Archangel, 38° at Knopio, 39° at Moscow and Kharkov; (2) 40° at Loughborough, 41° at York, 42° at Nairn. Failing to reach 60° in any part of our Islands and Scandinavia later, but exceeding that value over France and Germany, and touching 72° at Biarritz, 75° at Perpignan, 77° to 80° over the south of Italy, and 80° to 86° over Algeria.

Wind very variable; mainly South-Easterly over Germany and the eastern shores of the North Sea, Easterly in the north of Scotland, Northerly over Ireland and Portugal, and North-Westerly over the mouth of the Channel and Brittany; extremely light and variable over Russia and central Europe. Strong South-Easterly gales in the east of Scotland, Easterly gales in the Shetlands, and strong Northerly winds in the Hebrides, at night. Winds varying greatly elsewhere, but strong from between North and East in the south of France.

Barometer highest, (1) 30·1 ins. and more to 29·9 ins. over all the northern and eastern parts of Europe, and (2) about 29·7 ins. off the coast of Portugal. Lowest, 29·5 ins. and less all over the British Isles and the north and west of France, and below 29·3 ins. in a local depression off the entrance to the Firth of Forth: several other very shallow secondaries over the United Kingdom, France, and Bay of Biscay. Depression in the north-east growing deep later and moving north-westwards, and a new shallow system forming over the Bristol Channel. Barometer falling decidedly in Norway.

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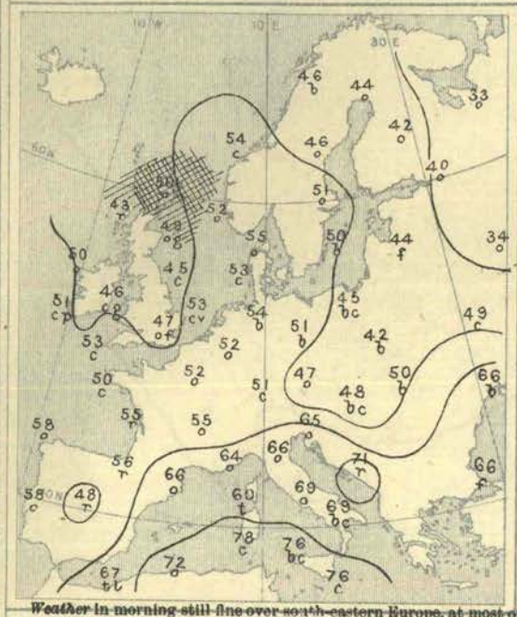
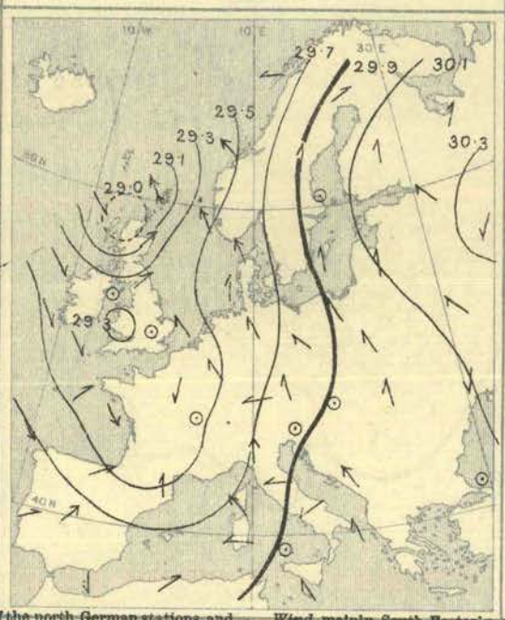
III.—SUMMARY OF WEATHER OVER EUROPE.

Thursday, 6th October.

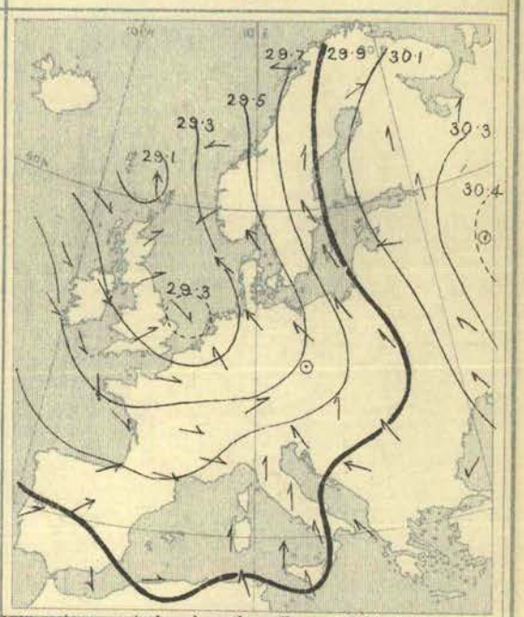
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning still fine over south-eastern Europe, at most of the north German stations, and in the north of Norway, very unsettled indeed over the British Islands, western and southern Europe; rain falling in many places, fog and mist prevalent in several parts of England. Large quantities of rain falling over the Netherlands, the north-east of France, the north of Italy, and the eastern parts of our Islands later; smaller quantities in the south of France, showers over Germany; lightning occurring at the North Foreland, thunderstorms at Jersey and over Algeria. Solar and lunar halos seen at several of the southern and south-eastern stations.

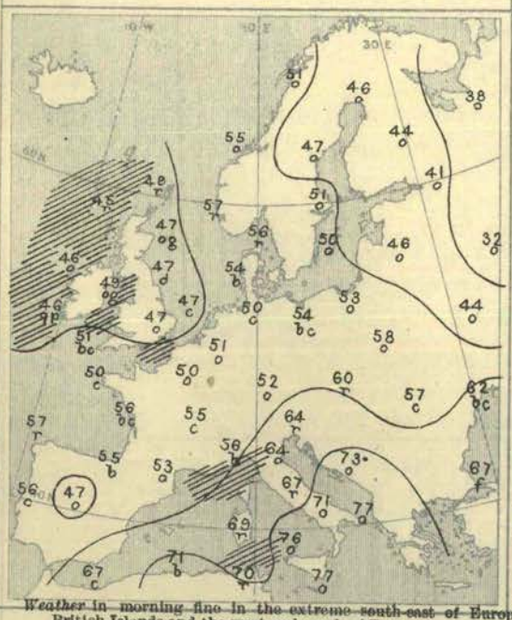
Temperature changing irregularly; morning readings exceeding 70° on the southern and south-eastern sides of the Mediterranean, but below 60° over nearly the whole of Europe, and lowest of all, (1) 33° at Archangel, 34° at Moscow, 38° at Kharkov; (2) 42° at York, 43° at Loughborough, 44° at Parsonstown, 45° at Oxford. Failing to reach 60° over Norway, Great Britain, Ireland, or the north of France later, but touching 64° at Berlin, 70° at Munich, 71° at Lyons, 74° at Perpignan and over Hungary, 75° to 80° in Italy, 90° and more in Sicily, but not so warm over Algeria.

Wind mainly South-Easterly over eastern, central, and northern Europe—light at the inland stations, fresh on the coasts; chiefly North-Westerly, strong to moderate, over Ireland and the Bay of Biscay; very variable over France and England; Southerly to South-Easterly, strong to a gale, in the east of Scotland. Shifting to the Northward later on our eastern coasts, and freshening for a time, but gale dying down at Scotch stations; becoming Westerly to Southerly over the Mediterranean.

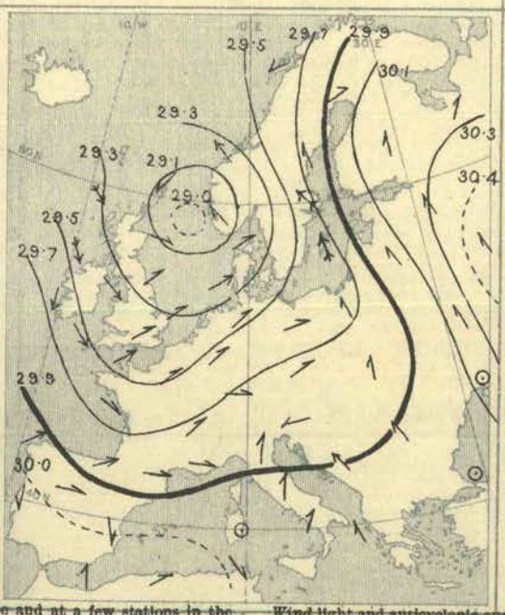
Barometer highest, (1) 30·3 ins. and more to 30·0 ins. over Finland, Russia, and south-eastern Europe; (2) 29·9 ins. to 29·6 ins. over the Spanish Peninsula. Lowest, below 29·4 ins. over France, Belgium, Great Britain, and the north-eastern parts of Ireland, and rather below 29·0 ins. in a depression lying over the north-west of Scotland, 29·3 ins. and less over the Bristol Channel. A new depression of no great depth over Belgium later, and advancing rapidly northwards over the North Sea.

Friday, 7th October.

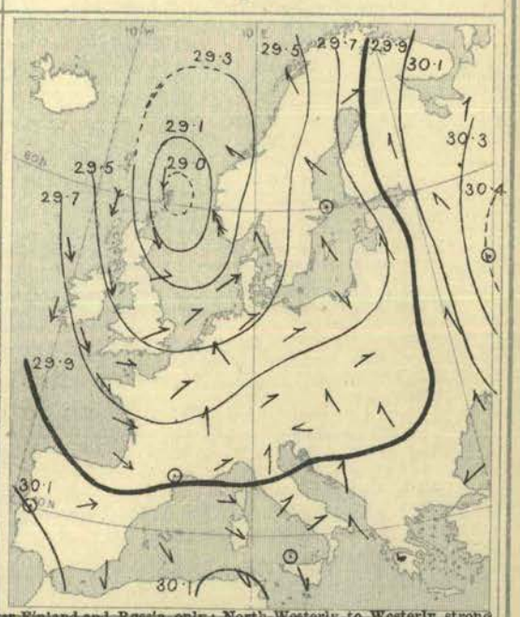
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine in the extreme south-east of Europe and at a few stations in the British Islands and the west and south of France, very cloudy and unsettled elsewhere, with rain at many stations over the British Islands and north-western Europe, as well as at Corunna; very rough and squally on our northern and north-western coasts later, and very showery over Europe generally—the rainfall being heavy at Aberdeen, Wick, and in the north-east and south-west of France; lightning occurring over our south-eastern counties at night.

Temperature continuing low in most places, but rising decidedly over central Europe. Morning readings now exceeding 70° at most of the Algerian and Italian stations, and exceeding 60° at Buda-Pesth and Cracow; below 50° over the British Islands and the north of Europe, and as low as 32° at Moscow, 38° at Archangel and Kharkov, and 41° at St. Petersburg; rising to between 60° and 69° in the south and west of France during the day, but falling to reach 60° over the United Kingdom, and falling short of 50° in many parts of Ireland, Scotland, and Lapland; exceeding 70° over Italy, Algeria, and the southern parts of Austria, and reaching 88° at Palermo.

Wind light and anticyclonic over Finland and Russia only; North-Westerly to Westerly, strong to a gale, in the west of our Islands; Westerly, fresh, in the south; Southerly over the Netherlands; South-Easterly, fresh to a gale, over the Baltic and southern half of Scandinavia. Not much change later, except in north-east of Scotland, where strong North-Westerly gale set in during night, and blew for some hours. Wind subsiding considerably over the Baltic and the south of Sweden.

Barometer highest, 30·4 ins. and more to 30·0 in an anticyclone lying over Russia; 30·0 ins. and more in another system spreading in from the Atlantic over the south-western half of Spain and the northern parts of Algeria. Lowest, about 29·0 ins. in a depression lying between Aberdeen and Skudesnæs. Gradients moderate to rather steep over north-western Europe generally. Rising over Great Britain and Ireland all day, but depression noted above becoming deeper for a time as it moved slowly to the northward.

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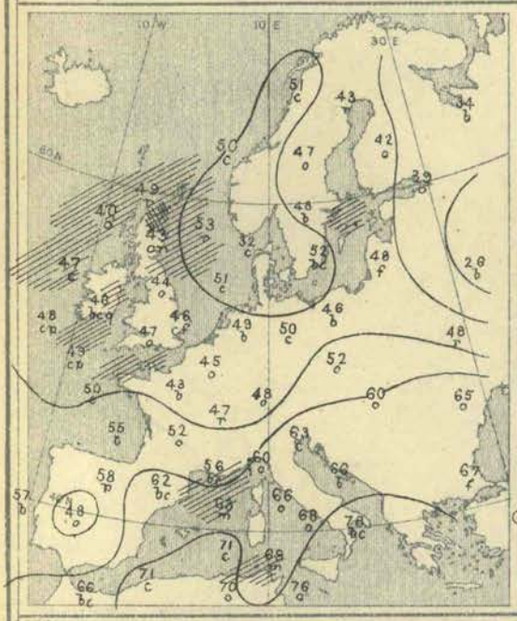
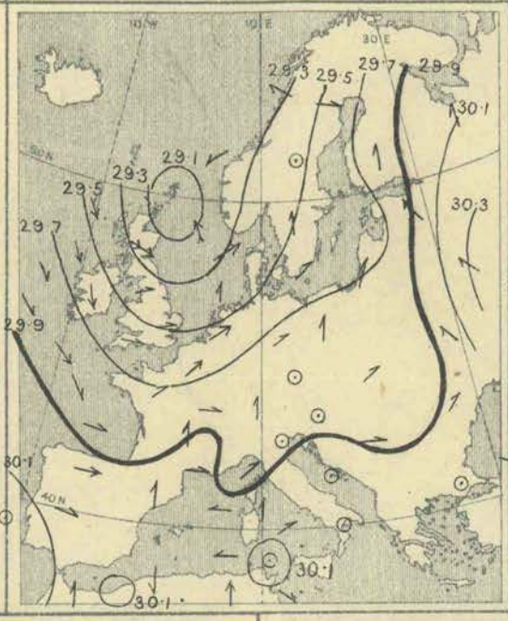
III.—SUMMARY OF WEATHER OVER EUROPE.

Saturday, 8th October.

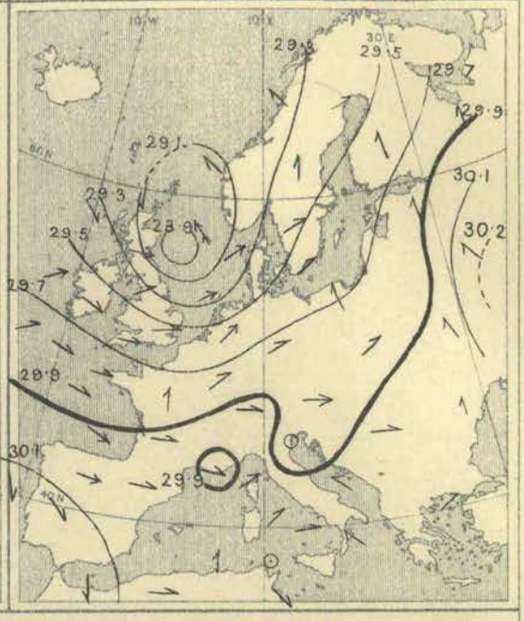
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



6 p.m.



Weather very rainy in the south of Norway and the north-east of Scotland; squally and showery in the western and northern parts of the United Kingdom generally, and cloudy in most other parts of Europe. Fine and bright over the Baltic, central Russia, Austria, and the south of France. Rain falling during day over nearly the whole of Europe—heavily in places, but some improvement taking place over England in evening.

Temperature in morning, highest, 78° at Brindisi, 76° at Malta, and 71° at Cagliari and Algiers; above 65° over Italy and the Mediterranean generally, but below 60° in the Riviera, and below 50° over central Spain. Lowest, (1) 26° at Moscow, 33° at Kharkov, 34° at Archangel, and 39° at St. Petersburg; (2) 40° at Stornoway, and 42° at Leith, Donaghadee, and Parsonstown; below 45° in almost all the more northern parts of the United Kingdom. Daily maxima below 55° in most parts of our Islands and their neighbourhood, and below 50° at several of our northern stations; thermometer exceeding 65° in the south of France, and exceeding 70° in Spain and Italy, the highest readings of all being 82° at Palermo and 81° at Brindisi.

Wind strong from the North-Westward or Northward in the west and north of our Islands, with a gale in the north-east of Scotland; moderate to strong from West over the Bay of Biscay and the south and east of England, Southerly over Germany, Denmark, and the Baltic; South-Easterly or Easterly in Norway and Russia, with a gale at Skudesnaes; calm or variable in Austria, South-Westerly in Italy, Southerly in Algeria. Wind subsiding later in the west and north of our Islands, and backing to the South-Westward in the west of Ireland.

Barometer highest, 30·3 ins. and upwards in a large anticyclone lying over central Russia, 30·1 ins. and upwards in another system over the southern parts of the Spanish Peninsula. Lowest, 29·1 ins. and less in the central parts of a depression lying between the Shetlands and west of Norway; gradients rather steep over the north of Scotland. Depression over North Sea subsequently increasing in depth and moving slowly south-eastwards; new disturbance approaching our north-west coasts from the westward in evening.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

Throughout this week low pressure areas of very complex form and irregular movement have been prevalent over the British Islands and their neighbourhood, and have occasionally spread southward and south-eastward across France, Germany, and Austria. Nearly all parts of the Continent have consequently been subject to unsettled weather—those least affected being the north-east and east of Russia, and the greater part of the Iberian Peninsula. The regions most affected were the British Islands and their neighbourhood—where day after day rain fell in considerable quantities, while thunderstorms and hail-squalls were felt in many places (especially in the south and south-east), and the wind at times blew with the force of a gale. Temperature was low, the air raw and very unpleasant. The clouds were heavy, but there were some bright intervals (more particularly in the night-time over England). At the close of the week there was no indication of permanent improvement.

BRIGHT SUNSHINE Values for the Week in addition to those found on page 236.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	10·9	?	14	?	EASTBOURNE	18·7	?	24	?
OSWALDKIRK (Yorkshire)	12·1	?	16	?	TENBY	26·7 *	?	35 *	?
WORKSOP	19·8	− 1·0	25	− 2	NEWQUAY	28·4	?	36	?
THURCASTON (Leicestershire)	18·2	− 2·0	23	− 3	TORQUAY	29·7 *	?	38 *	?
MARGATE	14·2	?	18	?	ARLEY COTTAGE (County Cavan)	15·5	?	20	?
WESTBOURNE (Sussex)	21·5 *	?	28 *	?	GUERNSEY	27·8 *	?	35 *	?
BRIGHTON	18·8	?	24	?					

* The values at Westbourne, Tenby, Torquay and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

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VOL. IX. No. 41.] *Third Series.* WEEK ENDING SATURDAY, 15TH OCTOBER, 1892. [*Price 6d.* [*Annual subscription, post paid, £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years' observations (1871–90). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the ten years 1881-90. RAINFALL.—*The Mean amounts* are those for the corresponding periods in the twenty-five years 1866–90, but the *Mean numbers of Rainy Days* are those for the ten years 1881-90, only. BRIGHT SUNSHINE.—*The Mean values* employed are those for the corresponding periods in the ten years 1881–90.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 242.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1892. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	55	33	48·5	40·5	44·3	2 below.	22	−16	4	− 2	1608*	− 95	768	+211
	1. SCOTLAND, EAST -	57	32	49·3	40·6	44·8	2 below.	25	−19	4	− 2	1878	−294	823	+240
	2. ENGLAND, N.E. - -	54	36	50·9	42·8	46·7	2 below.	33	−15	0	− 4	2146	−173	684	+177
	3. ENGLAND, EAST -	57	35	53·3	40·9	47·0	3 below.	40	−14	3	− 3	2529*	−159	774	+201
	4. MIDLAND COUNTIES	56	29	52·3	40·1	46·0	3 below.	36	−14	5	− 3	2491	−143	812	+241
	5. ENGLAND, SOUTH -	60	31	54·7	41·4	47·9	3 below.	44	−17	2	− 3	2782	−121	556	+130
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	57	31	51·3	40·5	45·8	2 below.	33	−15	4	− 1	2036	−193	614	+188
	7. ENGLAND, N.W. -	55	28	51·1	43·3	47·1	2 below.	36	−15	0	− 3	2295*	−129	579	+160
	8. ENGLAND, S.W. -	58	28	53·5	41·8	47·5	4 below.	39	−21	1	− 1	2594	− 96	434	+113
	9. IRELAND, NORTH -	55	28	50·5	40·3	45·3	3 below.	30	−20	5	+ 2	2214	−158	489	+123
	10. IRELAND, SOUTH -	58	29	52·1	40·1	45·9	5 below.	35	−22	5	+ 2	2584	− 89	415	+133
	— CHANNEL ISLANDS -	60	42	55·7	46·1	50·8	3 below.	62	−17	0	0	3074	+ 51	164	+ 42

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 242.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1892. Number of Rainy Days.	Difference from Mean.	Total Fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1892. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of In.	10ths of In.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	5	6	6 less.	200	+13	38·7	+ 2·5	15	− 5	20	− 8	1029	− 23	27	− 1
	1. SCOTLAND, EAST -	5	6	1 less.	160	+ 6	22·3	− 1·6	11	− 2	14	− 4	1207	− 14	32	0
	2. ENGLAND, N.E. - -	6	19	13 more.	154	+12	21·1	+ 0·8	16	− 3	21	− 3	1168	+ 45	31	+ 1
	3. ENGLAND, EAST -	6	13	7 more.	143	+ 4	21·6	+ 1·5	21	− 3	28	− 4	1392	+ 32	37	+ 1
	4. MIDLAND COUNTIES	5	11	5 more.	138	+ 2	19·3	− 3·0	25	+ 4	33	+ 5	1314	+ 97	35	+ 2
	5. ENGLAND, SOUTH -	4	5	2 less.	123	−10	17·8	− 3·3	26	+ 1	35	+ 2	1523	+198	41	+ 5
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	3	5	7 less.	159	− 3	35·7	− 1·8	25	+ 5	33	+ 6	1291	+ 81	34	+ 2
	7. ENGLAND, N.W. -	6	15	6 more.	162	+14	30·3*	+ 3·9	19	0	25	− 1	1281	+ 81	34	+ 2
	8. ENGLAND, S.W. -	5	8	3 less.	146	− 6	23·2	− 7·4	29	+ 5	38	+ 7	1523	+ 89	41	+ 2
	9. IRELAND, NORTH -	5	5	4 less.	176	+ 1	29·7*	+ 1·5	19	− 2	26	− 2	1151	+ 52	30	+ 1
	10. IRELAND, SOUTH -	3	5	3 less.	153	− 6	29·6	− 0·2	29	+ 7	38	+ 8	1262	− 22	34	− 0
	— CHANNEL ISLANDS -	4	10	1 more.	143	−18	21·4	− 3·0	21	−11	27	−14	1810	+130	49	+ 4

Bright Sunshine.—For several of the stations there are no "mean" values available, and the "difference from the mean" in some of the districts is consequently that of only a few of the stations.

General Remarks.

Weather, although fair for a day or two in the middle of the period, was mostly wet and unsettled, especially in the north and east of England, where exceedingly heavy falls of rain occurred between the 13th and 15th. Lightning was seen at some of our southern stations on the night of the 14th.

Temperature was everywhere below the mean, the deficit amounting to only 2° or 3° in most districts, but reaching 4° in England S.W. and 5° in Ireland S. The highest readings, which were observed at times varying greatly in the different districts, ranged from 54° in England N.E. and 55° in Scotland N., England N.W. and Ireland N., to 60° in England S. and the Channel Islands. The lowest readings were registered mostly about the middle of the week, when the thermometer fell to 32° or less in all districts excepting Scotland N., England N.E. and E., and the Channel Islands. In England N.W., England S.W., and Ireland N. the minimum readings were as low as 28°.

Rainfall was less than the mean in Ireland, Scotland, and the southern parts of England, but a trifle more than the mean in the Channel Islands and considerably in excess over the north and east of England. In England E. the amount was more than twice, and in England N.E. more than three times the average.

Bright Sunshine was in excess of the mean over the central and southern parts of England, as well as in the west of Scotland and the south of Ireland, but elsewhere there was a slight deficency. The percentage of the possible amount of duration ranged from 14 in Scotland E. and 20 in Scotland N., to 35 in England S. and 38 in England S.W. and Ireland S.

Barometer and Wind.—At the commencement of the week the centre of a deep depression travelled across Scotland and the North Sea, its passage across our Islands being marked by gales from between South-West and North-West on most parts of our coasts. As the disturbance passed away the barometer rose briskly and an anticyclone spread over our western and northern districts, the prevailing winds being light or moderate from the northward. A depression was, however, in the meantime advancing from the Bay of Biscay over France, and on the 13th and 14th, when the centre moved in a north-westerly direction across the Channel, the wind increased to a gale from the North-Eastward in many parts of our Islands. At the close of the week the depression was travelling southwards over the Bay of Biscay, but further low pressure systems were appearing over Denmark and Germany, and strong North-Easterly or Northerly winds still blew on our north-western, northern, and eastern coasts.

* This value has been altered slightly owing to the receipt of further information.

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II.—DATA from which the SUMMARY on page 241 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°				Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head ⚓	50	40	48·0	43·4	45·6	− 0·5	25	0	6	0·21	−0·74	*	*	*	*
	Stornoway	52	36	48·0	39·1	43·4	− 3·0	22	8	4	0.17	−0·97	14·8	−5·6	20	−8
	Wick	52	38	49·3	42·1	45·6	− 1·3	25	0	7	0·62	−0·07	*	*	*	*
	Lairg ⚓	54	33	47·9	37·9	42·7	− 3·5	22	11	7	0·70	−0·20	*	*	*	*
	Glencarron ⚓	53	35	? 47·5	? 39·1	? 43·1	? − 2·7	? 20	? 8	6	1·10	−0·87	*	*	*	*
	Fort Augustus ⚓	51	37	48·8	40·3	44·4	− 2·5	24	5	6	1·31	+0·38	3·8	?	5	?
	Fort William ⚓	55	37	50·0	41·3	45·5	− 2·5	27	2	1	0·15	−1·63	25·8	?	35	?
1. SCOTLAND, E.	Nairn	51	37	48·3	40·1	44·1	− 3·1	23	5	6	1·21	+0·66	*	*	*	*
	Aberdeen	53	40	49·7	43·4	46·5	− 1·3	32	0	6	0·77	+0·12	18·4	−2·8	25	−4
	Braemar ⚓	48	35	45·7	38·2	41·8	− 2·3	10	15	6	0·72	−0·18	4·2†	?†	6†	?†
	Ochtertyre ⚓	56	32	52·1	39·1	45·4	− 1·3	36	8	1	0·05	−0·89	*	*	*	*
	Leith	57	38	51·3	41·6	46·3	− 2·6	32	1	6	0·34	−0·09	*	*	*	*
	Marchmont ⚓	51	37	48·7	41·0	44·7	− 1·4	23	3	6	0·76	+0·03	13·3	?	18	?
2. ENGLAND, N.E.	Alnwick Castle	53	40	50·0	43·4	46·6	− 1·2	32	0	6	0·75	+0·12	*	*	*	*
	Durham	54	36	50·1	41·3	45·6	− 2·2	28	2	7	2·23	+1·56	13·6	−5·5	18	−8
	Shields	53	36	51·6	41·3	46·3	− 2·3	33	2	6	0·58	0·00	*	*	*	*
	Scarborough ⚓	52	39	50·3	44·0	47·1	− 2·0	36	0	6	3·26	+2·56	*	*	*	*
	York	54	37	52·0	42·3	47·0	− 1·8	35	0	6	2·77	+2·17	20·3	+1·3	27	+ 2
	Spurn Head	53	41	51·4	44·4	47·8	− 2·9	41	0	6	2·04	+1·53	*	*	*	*
3. ENGLAND, E.	Hillington ⚓	54	35	52·9	41·2	46·9	− 2·4	38	2	6	1·50	+0·91	19·8	−2·2	26	−3
	Yarmouth	54	37	52·6	43·1	47·7	− 2·4	40	0	6	2·19	+1·54	*	*	*	*
	Geldeston	56	36	54·4	41·3	47·8	− 2·2	44	2	7	1·47	+0·87	21·9	−4·2	29	−5
	Cambridge	57	35	54·3	39·1	46·5	− 3·2	44	8	5	0·73	+0·22	19·5	−5·3	26	−7
	Rothamsted	55	35	52·4	39·7	45·9	− 2·8	37	6	5	0·55	−0·12	23·9	?	32	?
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	54	34	52·3	41·3	46·6	− 2·1	35	2	6	2·61	+1·97	*	*	*	*
	Loughborough	56	33	53·7	40·7	47·0	− 2·0	40	4	6	1·20	+0·56	*	*	*	*
	Stamford (Ketton Hall)	56	35	53·7	41·0	47·2	− 1·8	41	3	6	1·57	+0·92	*	*	*	*
	Cheadle ⚓	53	36	50·0	40·5	45·1	− 2·5	28	4	5	1·23	+0·44	*	*	*	*
	Churchstoke ⚓	53	29	50·6	38·2	44·3	− 3·5	32	10	5	0·70	−0·07	24·7	+ 3·7	33	+ 4
	Hereford ⚓	54	30	52·2	39·8	45·8	− 3·2	36	6	5	0·55	−0·08	*	*	*	*
	Cirencester	54	31	52·0	39·6	45·6	− 2·6	35	7	4	0·62	−0·08	30·3	+ 8·0	40	+10
	Oxford	56	34	53·7	39·7	46·5	− 3·2	41	6	5	0·53	−0·06	26·8	+ 3·5	36	+ 4
5. ENGLAND, S.	London	60	34	54·7	40·6	47·4	− 3·3	44	4	4	0·51	−0·08	16·8†	− 1·5†	22†	− 3†
	North Foreland	57	38	54·1	42·7	48·2	− 3·4	43	0	4	0·47	?	*	*	*	*
	Strathfield Turgiss ⚓	57	31	54·3	38·0	45·9	− 3·7	44	11	4	0·43	−0·17	*	*	*	*
	Dungeness	60	34	56·0	42·4	49·0	− 3·0	49	0	3	0·62	−0·10	*	*	*	*
	Hastings (St. Leonards)	59	37	55·0	41·8	48·2	− 3·8	44	1	2	0·26	−0·54	28·9	+ 0·2	39	+1
	Southampton	59	34	56·2	41·0	48·4	− 2·8	49	3	4	0·47	−0·27	29·8	+ 3·6	40	+5
	Hurst Castle	57	38	55·4	44·1	49·6	− 2·4	53	0	3	0·58	−0·17	*	*	*	*
	Stowell ⚓	55	33	52·1	40·4	46·1	− 3·0	35	4	4	0·70	?	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	57	33	52·0	39·4	45·5	− 2·4	35	7	2	0·17	−1·61	*	*	*	*
	Glasgow	53	33	50·4	40·8	45·5	− 2·1	30	3	3	0·04	−0·81	22·9	+ 7·7	31	+10
	Ardrossan	55	35	51·9	40·9	46·2	− 3·0	34	3	1	0·03	−0·85	*	*	*	*
	Glenlee ⚓	54	31	51·0	38·0	44·3	− 2·5	33	11	1	0·24	−1·03	*	*	*	*
	Douglas (Isle of Man)	54	40	51·2	43·6	47·3	− 1·8	37	0	6	1·92	+0·98	26·0	+ 2·5	35	+ 3
7. ENGLAND, N.W.	Newton Reigny	52	28	49·0	38·5	43·6	− 5·4	26	10	6	0·85	+0·37	10·6	− 9·0	14	−12
	Stonyhurst	52	36	50·3	43·1	46·6	− 1·9	32	0	4	1·73	+0·55	23·2	+ 4·0	31	+ 5
	Blackpool ⚓	55	40	52·2	44·4	48·2	− 1·2	43	0	4	1·81	+0·88	27·0	+ 7·4	36	+ 9
	Manchester	53	31	51·6	41·3	46·3	− 2·5	33	2	7	2·07	+1·17	*	*	*	*
	Liverpool Obsy. (Bidston)	54	43	51·7	44·3	47·9	− 2·0	41	0	6	1·54	+0·73	*	*	*	*
	Llandudno ⚓	53	40	51·2	45·4	48·2	− 2·9	43	0	6	1·49	+0·64	15·2	− 2·2	20	− 3
	Holyhead	52	44	51·4	46·1	48·7	− 3·0	47	0	6	1·12	+0·17	*	*	*	*
8. ENGLAND, S.W.	Llandovery	56	28	54·0	38·4	46·0	− 3·6	43	10	6	0·58	−0·62	*	*	*	*
	Pembroke	56	41	53·3	44·7	48·9	− 3·0	48	0	5	0·62	−0·28	34·6	+11·3	46	+14
	Arlington (N. Devon)	55	35	51·6	40·9	46·1	− 3·7	33	3	7	1·35	+0·08	*	*	*	*
	Cullompton ⚓	58	31	54·4	40·4	47·2	− 2·7	43	4	4	1·18	+0·28	23·5	+ 1·6	31	+ 2
	Falmouth	55	40	53·1	43·2	48·0	− 4·4	42	0	4	0·67	−0·55	29·6	+ 3·4	39	+ 4
	Plymouth															
	Prawle Point	58	39	54·4	42·9	48·5	− 3·6	46	0	3	0·42	−0·38	*	*	*	*
9. IRELAND, N.	Malin Head	53	42	49·9	44·9	47·3	− 0·8	37	0	4	0·14	?	*	*	*	*
	Londonderry	53	34	51·4	39·5	45·3	− 3·5	34	7	7	0·63	−0·32	*	*	*	*
	Edenfel (Omagh)	53	34	49·7	39·0	44·2	− 3·3	28	8	4	0·40	?	*	*	*	*
	Mullaghmore	52	39	50·7	43·3	46·9	− 3·7	34	0	5	0·37	−0·75	*	*	*	*
	Belmullet	54	42	50·4	43·6	46·9	− 4·7	34	0	6	0·51	?	*	*	*	*
	Markree Castle	51	29	50·2	37·4	43·6	− 4·5	31	13	5	0·50	−0·35	18·6	− 1·0	25	− 1
	Brookeborough	53	28	50·2	35·6	42·7	− 4·4	32	18	3	0·42	−0·50	*	*	*	*
	Armagh	55	34	50·9	37·8	44·2	− 3·6	32	12	4	0·80	+0·12	15·1	− 3·3	20	− 5
	Donaghadee	54	41	51·7	44·4	47·9	− 1·3	41	0	5	0·57	−0·13	*	*	*	*
	Edgeworthstown	52	33	50·1	37·6	43·7	− 4·0	30	12	3	0·65	−0·05	*	*	*	*
10. IRELAND, S.	Dublin	52	38	50·8	41·8	46·2	− 3·8	30	1	3	1·25	+0·58	28·5	+5·3	38	+ 7
	Parsonstown	53	30	51·1	36·0	43·3	− 5·2	34	17	2	0·39	−0·31	21·1	−0·3	28	0
	Kilkenny	57	34	51·6	39·6	45·4	− 4·1	34	7	3	0·38	0·00	*	*	*	*
	Waterford	57	36	53·9	40·9	47·2	− 4·1	41	3	3	0·54	−0·36	*	*	*	*
	Roche's Point	56	39	53·0	41·7	47·2	− 4·5	38	1	1	0·50	−0·40	*	*	*	*
	Valencia	58	37	53·1	42·1	47·4	− 4·8	38	0	2	0·29	−0·99	36·0	+13·7	48	+18
	Killarney	58	29	51·7	37·7	44·5	− 6·1	36	12	3	0·34	?	*	*	*	*
	Foynes	54	35	51·6	40·6	45·9	− 3·2	33	4	4	0·26	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	57	45	55·0	45·7	50·2	− 3·7	57	0	3	0·52	−0·32	*	*	*	*
	Jersey	60	42	56·4	46·4	51·3	− 2·9	65	0	5	1·54	+0·56	19·1	−10·7	25	−14

Stations marked ⚓ are in connection with the Royal Meteorological Society, and those marked ⚓ with the Scottish Meteorological Society.

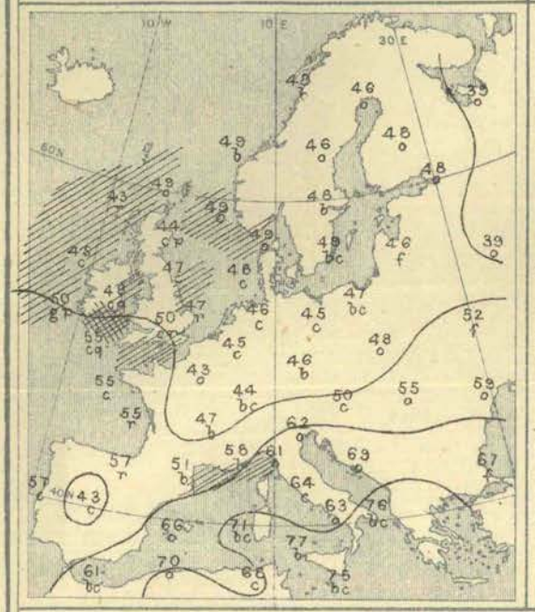
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory and the Meteorological Office, Victoria Street. For additional Reports of Sunshine see last page.

Sunday, 9th October.

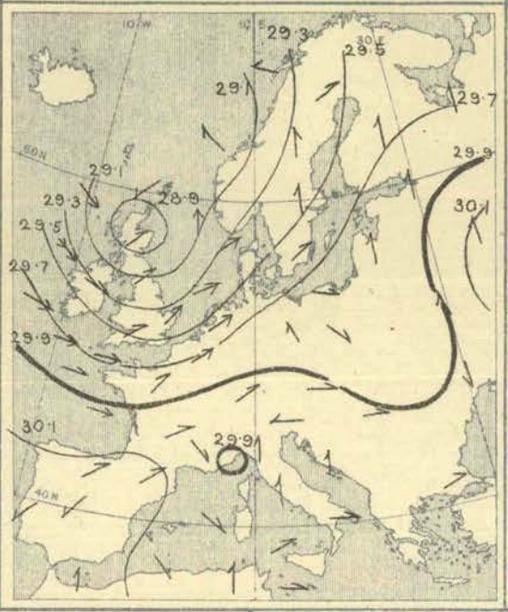
Temperature and Weather.

8 a.m.

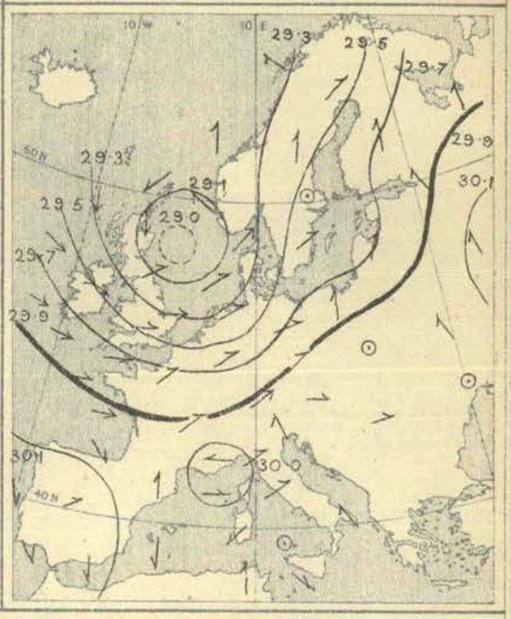


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over the extreme southern and south-western countries only; dull in the south-east and east, very unsettled, rough, squally, and wet in the north-west—especially in the west and south of the British Isles. Heavy squalls and considerable rain experienced on all our own and neighbouring countries later—the largest falls of rain being 0·8 in. to 0·8 in. in the north-east of Scotland, 0·8 in. to 1·0 in. on the eastern shores of the North Sea; considerable showers on the southern side of the Mediterranean also.

Temperature in morning, highest, 75° to 77° over Malta, Sicily, and the south of Italy, and 70° at Algeria; above 60° at most of the Mediterranean stations, but below 50° over the greater part of north-western and central Europe. Lowest, (1) 39° at Archangel and Moscow, 43° at Kharkov; (2) 42° to 45° at most of the Scotch stations, 44° at Parsonstown; (3) 43° at Paris and at Madrid, 44° at Belfort. Failing to reach 60° over Great Britain, Ireland, or Germany during day, but rising to between 60° and 69° over the south-western and southern parts of France and the greater part of Italy, to 88° at Palermo, and to 90° in some parts of Algeria.

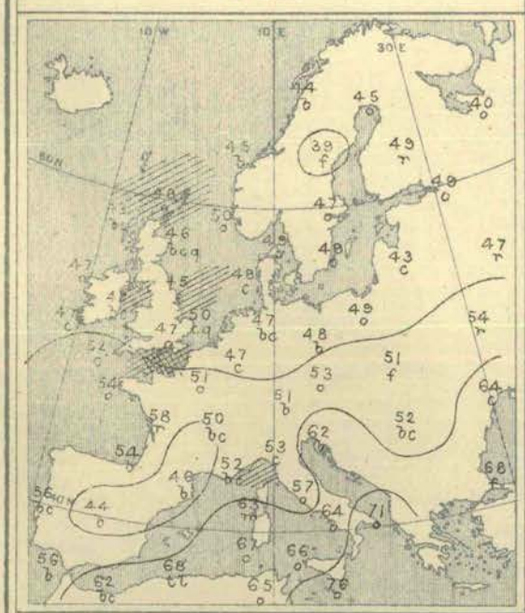
Wind very light over eastern, south-eastern, and southern Europe, and light in force; moderate to fresh from West in France, from the South-Westward in Germany, and from the Southward over the Baltic. Blowing hard from the North-Westward on our extreme north-western coasts, strongly from the Westward over England and the Channel, and from South-West over the North Sea, but from East in Caithness. Increasing to a strong gale from the North-West on all our north and north-west coasts and at some eastern stations later, and blowing hard nearly all day.

Barometer highest, 30·1 ins. and more to 30·0 ins. (1) over the Iberian Peninsula and south-west of France, (2) over central Russia. Lowest, 28.9 ins. and less in a depression passing across Scotland, and apparently in another off the west of Norway. Gradients steep over Ireland and England, rather so over the north Sea. Scotch depression moving quickly to the east-south-eastward later and barometer rising on all our coasts.

Monday, 10th October.

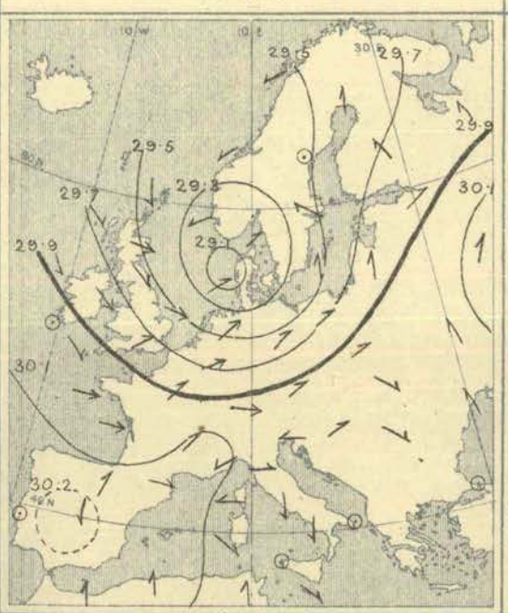
Temperature and Weather.

8 a.m.

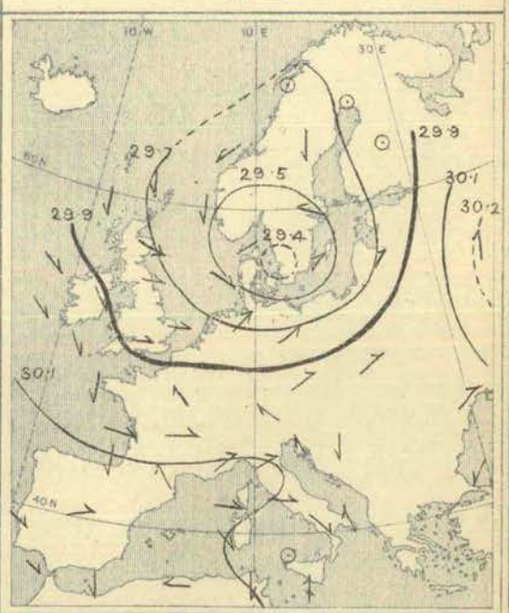


Barometer and Wind.

8 a.m.



6 p.m.



Weather fine over the greater part of the United Kingdom, the west of Norway, Austria, northern Italy, and the southern parts of France and Spain; cloudy or overcast in Sweden, Denmark, Germany, and Russia, with rain in many places; dull also in southern Italy; thunderstorms reported at Algiers. Showers during day in north and north-west of Europe generally; considerable amount of rain measured at some of the French, German, and Scandinavian stations, and heavy falls in several parts of Algeria and Tunis.

Temperature in morning highest, 76° at Malta, 71° at Brindisi, 68° at Algiers and Constantinople, and 67° at Cagliari; above 60° at most of the Mediterranean stations, and above 55° in the west of France, but below 45° over central Spain. Lowest, (1) 39° at Hernösand, 40° at Archangel, and 43° at Ulleaborg; (2) 42° at Cracow and Vienna; (3) 41° at Parsonstown and 43° at Stornoway. Rising during the day to between 50° and 58° in most parts of the United Kingdom, reaching 60° at Jersey and Dungeness, and exceeding 75° in the southern parts of France, as well as over Italy. Much less warm than of late over the southern side of the Mediterranean. Night cold inland; ground frosts occurring over England.

Wind moderate to strong from the North-West over our Islands and from the West over France. Strong to gale from West or South-West over Germany; moderate from South over the Baltic, and light from the same quarter in Russia; light Easterly or North-Easterly in Norway. Variable over the greater part of southern Europe, but Southerly or South-Easterly in Algeria. Subsequently falling light in many parts of our Islands, but increasing to a strong gale from the West at the mouth of the Elbe.

Barometer highest, 30·2 ins. and more to 30·1 ins. in an anticyclone lying over Spain, the south of France, and the western parts of the Mediterranean; 30·1 ins. and more in another covering the south-eastern half of Russia. Lowest, 29·1 ins. and less in a well marked and rather deep depression lying over Denmark. Gradients steep over northern Germany, the Netherlands, and the southern parts of the North Sea. Depression subsequently moving eastwards and beginning to fill up quickly; barometer rising steadily in all parts of western Europe, but Russian anticyclone giving way.

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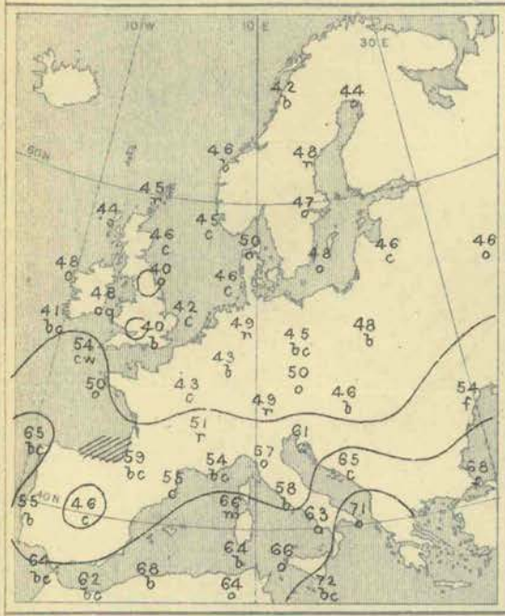
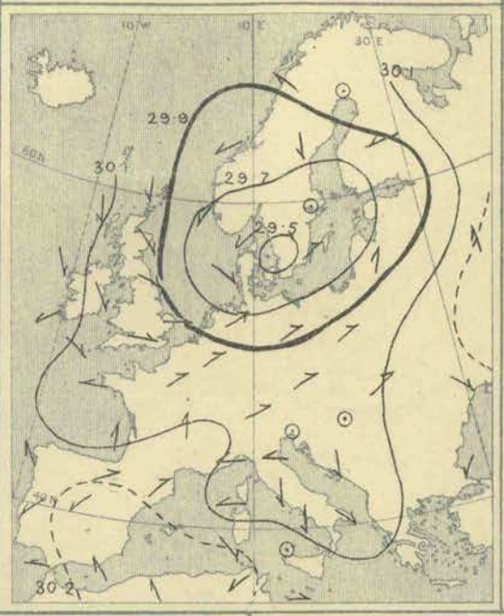
Tuesday, 11th October.

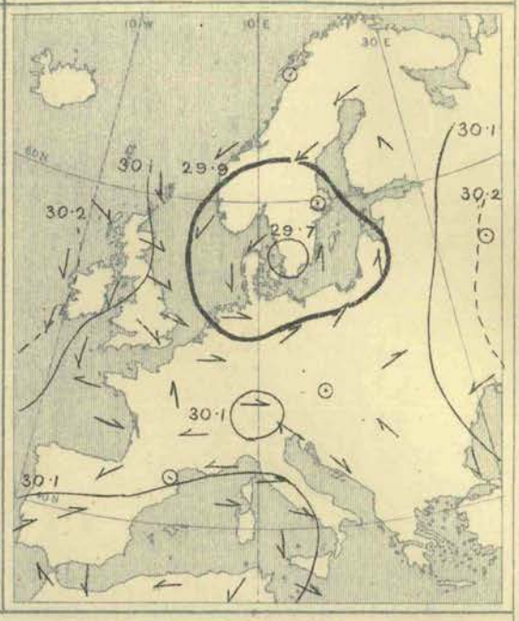
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over south-western Europe, the south-east of England, and in Norway, cloudy more or less elsewhere; dull at many of our northern stations, very rainy in the south-east of France and south Germany, as well as at Cuxhaven and Hernösand. Slight rain later at the northern and north-western stations, much larger quantities over France and western Germany; local showers in Scandinavia and some parts of Austria-Hungary.

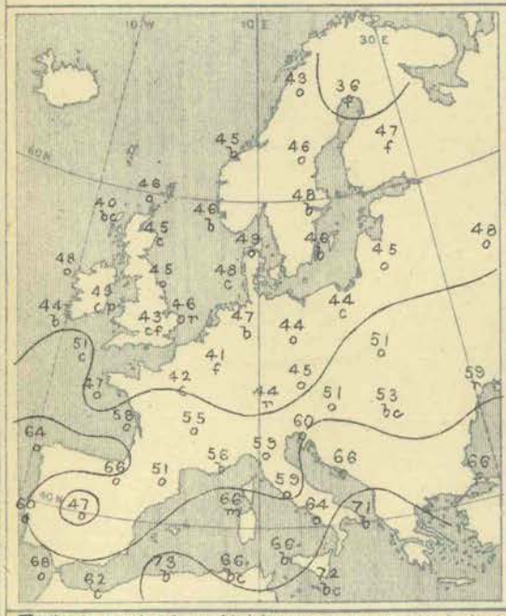
Temperature fallen over western Europe. Morning readings exceeding 70° at Brindisi and Malta only; exceeding 60° at the majority of the southern European stations, but below 50° over eastern, northern, and north-western Europe. Lowest, 36° at Oxford, 39° at Parsonstown and Loughborough, 40° at Shields, York, and in London, 43° at Paris, 45° at Berlin and Vienna. Rising to between 47° and 58° over Great Britain, Ireland, and the greater part of France later, but to between 70° and 80° in the south of France and over Italy, and to above 80° in some parts of Algeria.

Wind light to moderate from the North-Westward over the United Kingdom and the North Sea; Westerly and variable over France, South-Westerly over Germany, Southerly over the Baltic, very light and variable over northern Europe. Becoming more Northerly over the United Kingdom later, but remaining moderate in force; continuing very variable over France.

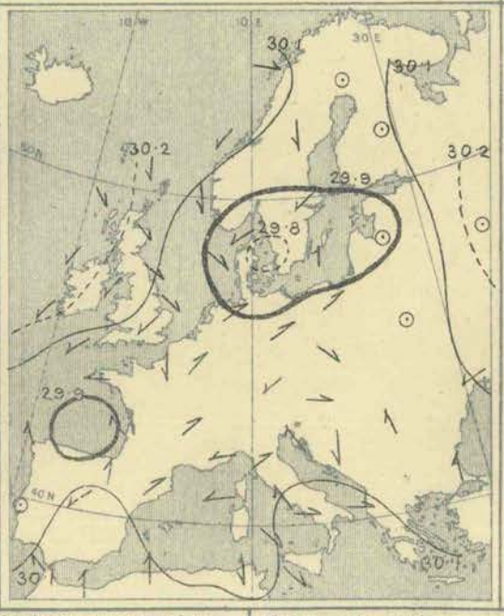
Barometer highest, (1) 30·2 ins. and more to 30·1 ins. both over south-eastern and south-western Europe and Algeria; (2) 30.1 ins. and more over Ireland and the Hebrides; (3) 29·9 ins. and more over Lapland. Lowest, 29·6 ins. and less in a complex, but dispersing depression, lying over Denmark and the south of Sweden. Rising over the United Kingdom all day. Depression over Baltic still filling up and undergoing great modifications in form.

Wednesday, 12th October.

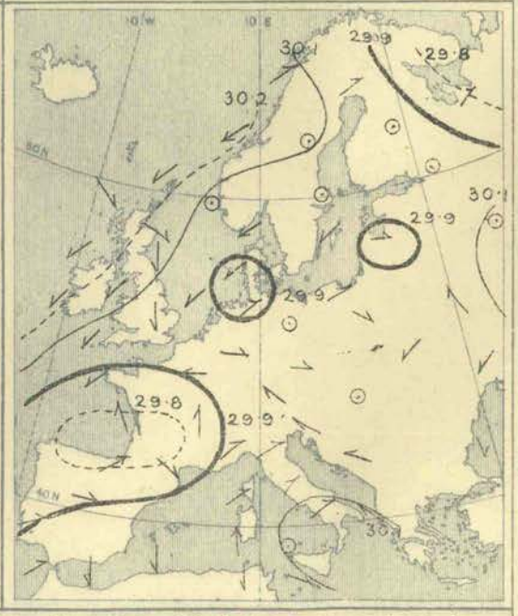
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the greater part both of the Mediterranean, the United Kingdom, and west of Norway; cloudy more or less elsewhere, with rain in several parts of France and south Germany; fog in Finland. Showers later in the north, the east, and south-east of our Islands, and over Germany. Considerable rain again in several parts of France, showers over Germany and Austria, remaining fine at our western stations.

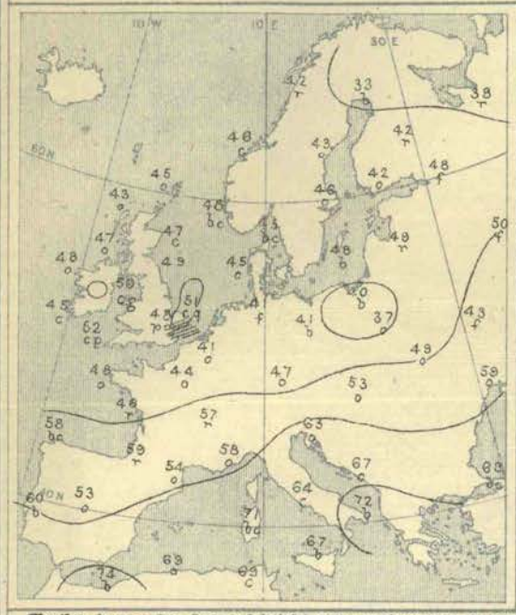
Temperature exceeding 70° at a few stations on the southern and south-eastern sides of the Mediterranean and at Bilbao, and exceeding 60° on the south coasts of France generally. Below 50° over the United Kingdom and greater part of Europe, and as low as (1) 36° at Haparanda, 41° at Uleaborg; (2) 37° at Parsonstown and Loughborough, 39° at Oxford, 42° at York; (3) 38° at Wiesbaden, 41° at Brussels, 42° at Paris and Breslau. Failing to reach 55° over our Islands and Germany during day, and only touching 45° at Paris; but reaching 63° at Rochefort, 68° at Nice, and 73° and more at Biarritz and in many parts of Italy. Night less cold over England than of late, but very sharp over central Ireland.

Wind light to moderate from between North-West and North-East over the United Kingdom generally, North-Westerly to Northerly over the North Sea, South-Westerly in Germany, Southerly over the Baltic, Northerly over Scandinavia, Easterly in the Channel and west of France, Southerly in the north of France; extremely variable and light all over central, south-eastern, and eastern Europe. Freshening a little from North-East over the Channel and Brittany later, and from South-West at Biarritz.

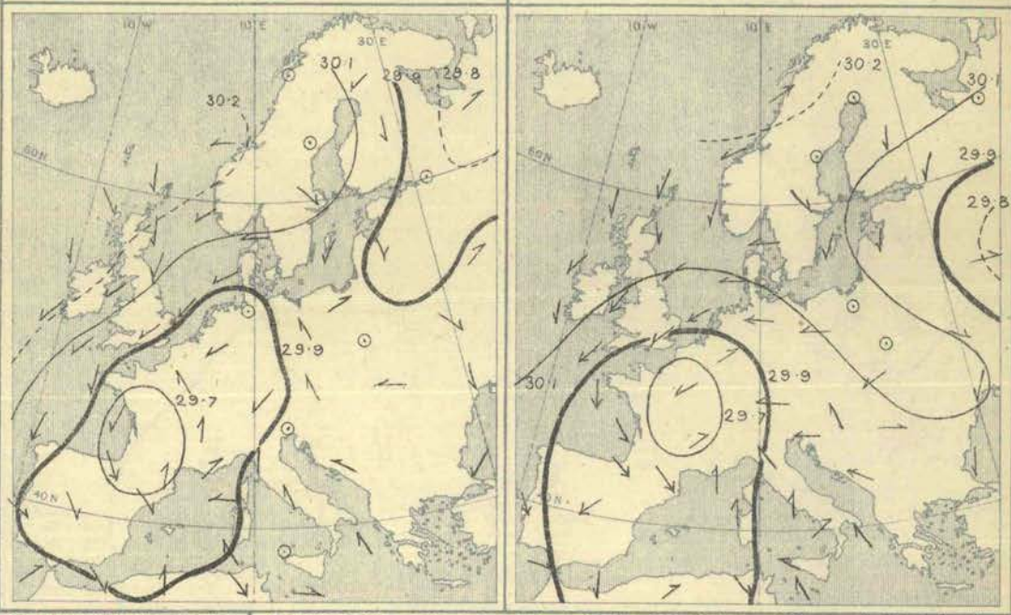
Barometer highest, 30·2 ins. and more to 30·1 ins. over the western and northern parts of our Islands and in Norway, as well as over Russia; 30·1 ins. and more to 30·0 ins. over Algeria and the greater part of Spain. Lowest, 29·9 ins. to 29·8 ins. in a depression over the Sound, the Baltic, and south of Sweden, and in another over the southern half of the Bay of Biscay. Latter system growing rather deeper later and moving slowly eastwards.

Thursday, 13th October.

Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m. 6 p.m.



Weather in morning fine and bright over south-eastern Europe, and temporarily clear at some isolated stations in other parts of the Continent, but changeable and very unsettled as a whole, especially over France. Heavy rain over the southern half of the latter country during the day, and 0·95 in. at Jersey; smaller quantities over the British Islands, and local showers over northern and central Europe. Thunder and lightning in the southern parts of France.

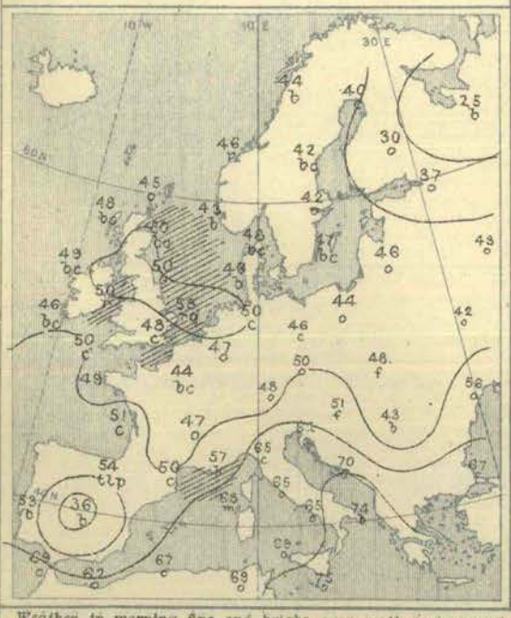
Temperature low for the time of year, except in the extreme north-west and over Russia. Morning readings exceeding 70° at Nemours, Cagliari, and Brindisi only; below 30° over nearly the whole of Europe and the British Isles, and lowest of all, (1) 33° at Haparanda, 38° at Archangel; (2) 37° at Warsaw, 39° at Breslau; (3) 34° at Parsonstown. Maxima during day not exceeding 55° over our Islands, north Germany, or the north of France, and failing to reach 50° in the north of Scotland, but touching 61° to 70° in the south of France and 73° at Biarritz; 70° to 79° in Italy, and 80° or more in some parts of Algeria.

Wind (1) light to moderate from between North and North-East over Norway, the North Sea, the British Islands, the Channel, and the Bay of Biscay; (2) mainly South-Easterly or Southerly over the Mediterranean and Germany, variable from the Eastward in the north of France; extremely variable over south-eastern and eastern Europe. Becoming strong from North-East over the south-eastern and eastern parts of England later, and from North-West at Biarritz.

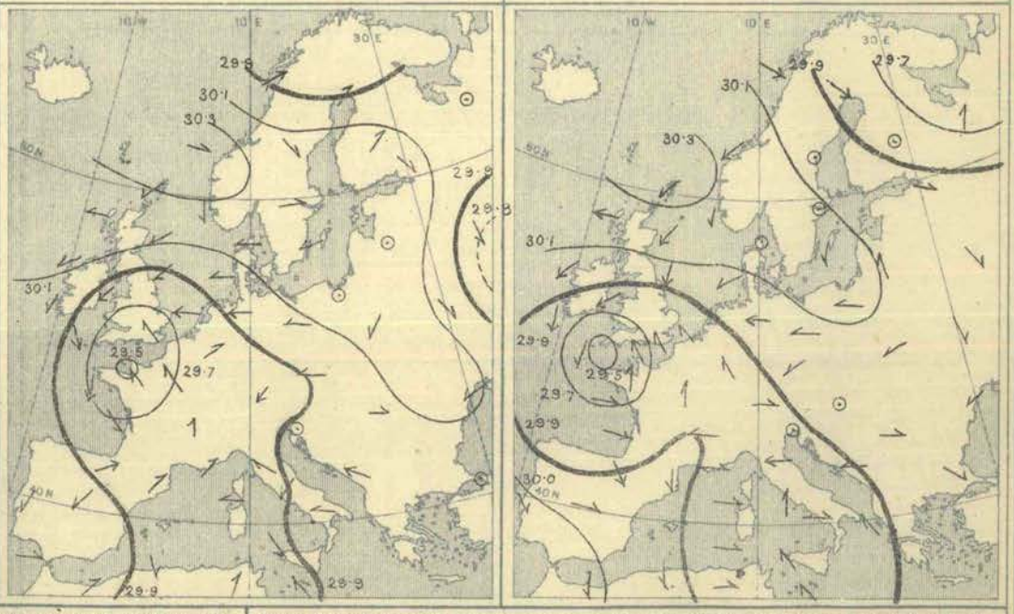
Barometer highest, (1) 30.2 ins. and more to 30·0 ins. over all the north-western parts of the British Islands and Scandinavia; (2) 30·0 ins. and more over south-eastern Europe, and in a "col" connecting that region with the Baltic; (3) 30·0 ins. and more over the extreme south of Spain. Lowest, (1) 29·7 ins. and less in a well marked depression over the south-west of France, and below 29·3 ins. in several secondary disturbances over the east of France and western Germany; (2) 29·9 ins. to 29.7 ins. in a "V" shaped disturbance covering the north of Russia. The French depression moving north-eastwards later and spreading over England.

Friday, 14th October.

Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m. 6 p.m.



Weather in morning fine and bright over south-western and many parts of south-eastern Europe, also in Norway, Scotland, and Ireland; cloudy or overcast elsewhere, very unsettled over France and England, with rain in many places; thunder reported at Bodö, Fanö, and Biarritz. Rain falling later over the greater portion both of the British Isles and France—heavy in some places (2·6 ins. at Nice, 2·8. in. at Rochefort, 1·0 in. at Yarmouth, 0·9 in. at Spurn Head, and 1·7 ins. at York). Showers over the Mediterranean, some parts of central Europe, and the Baltic. Thunderstorms in the south-west of France.

Temperature highest, 65° to 75° on the Italian, Sicilian, and Algerian coasts, but below 60° over almost the whole of Europe, and below 50° over France, Russia, Finland, and the Baltic. Lowest, (1) 25° at Archangel, 30° at Kuopio, 33° at Ulesborg, 37° at St. Petersburg; (2) 37° at Warsaw, 42° at Kiev; (3) 44° at Paris, 45° at La Heve. Rising to between 50° and 54° over the United Kingdom and north of France later; rather higher in Denmark and Germany, between 60° and 70° in the south of France and at Lisbon; 70° to 80° over the southern half of Italy.

Wind (1) South-Westerly, strong to a gale, over Lapland; North-Westerly, moderate to light, over Russia; (2) Easterly, moderate, over the North Sea; strong to a gale from East over Holland and the east and north of England, and from North-East in the Irish Channel; fresh North-Westerly in the west of France, Southerly in the north-east of France, and South-Easterly over the south-eastern counties; very variable over south-eastern Europe and the Mediterranean. Becoming Westerly in the west of France later, and Southerly over the south-east of England, while the North-Easterly gale spread over Ireland. The gale on our east coasts dying down later.

Barometer highest, 30·3 ins. and more to 30·1 ins. in an anticyclone spreading in from the Atlantic over the Shetlands, the Orkneys, and the southern half of Scandinavia to the Baltic. Lowest, 29·6 ins. to 29·5 ins. and less in a depression covering the north of France and south of England; 29·8 ins. and less in a large area over Russia, and 29·9 ins. and less in a third over Lapland. French depression moving north-westward to Cornwall later, those over Lapland and Russia passing eastwards.

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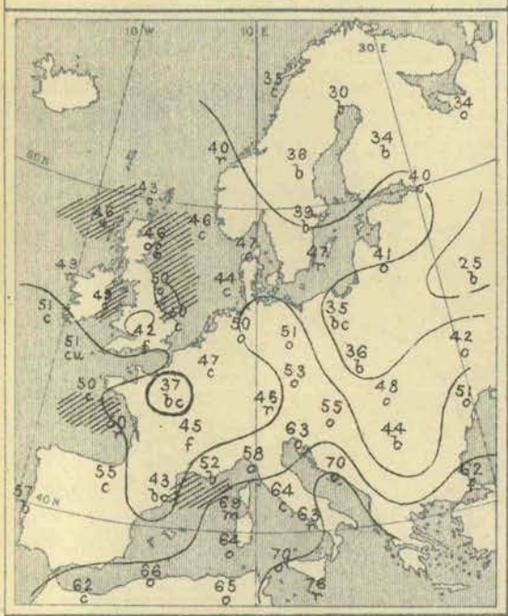
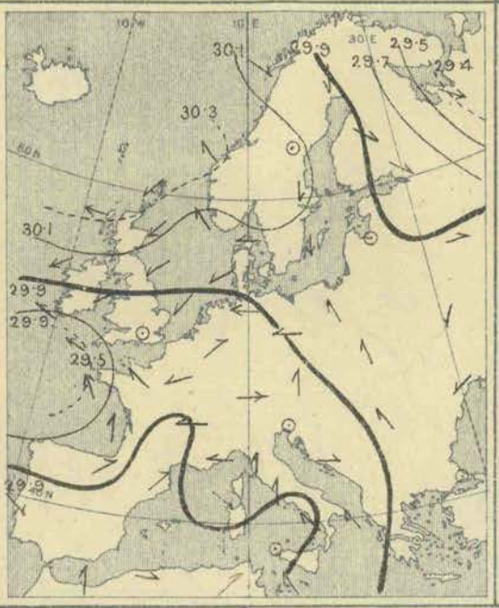
III.—SUMMARY OF WEATHER OVER EUROPE.

Saturday, 15th October.

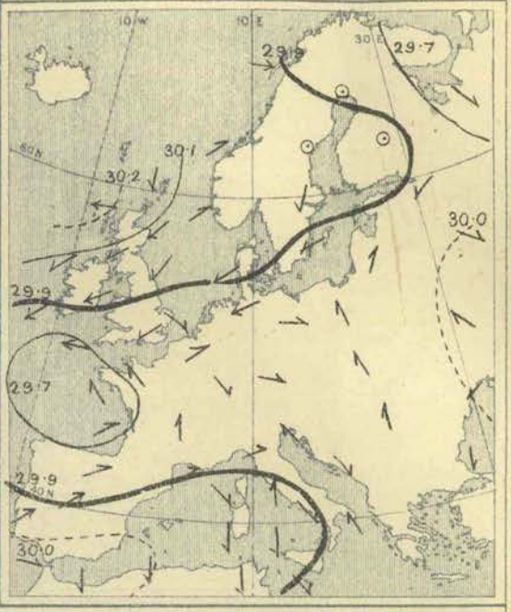
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in the morning in an unsettled condition almost all over Europe, though fine and bright over the southern half of Russia, at most of the Swedish stations, and (temporarily) at most of the coast stations of our southern counties. Overcast in most regions, rainy in many (especially over Great Britain and Ireland), with thunder and lightning at Lorient. Rain at times during the day in many parts of our Islands, France, Germany, and Italy—amounts largest in France,—local falls in Scandinavia; thunderstorms in places.

Temperature fallen considerably over England. Morning readings 76° at Malta, 70° at Palermo, and above 60° over the Mediterranean stations generally, and at Moscow, exceeding 50° over southern and western Germany; much lower elsewhere. Lowest, (1) 25° at Moscow, 30° at Haparanda, 34° at Archangel and Kuopio, 36° at Hernösand and Bodö; (2) 37° at Paris, 39° at Oxford, 42° in London. Rising to between 50° and 60° over England later, to between 70° and 80° over Italy and the south of France, and to between 80° and 86° over Algeria.

Wind (1) extremely variably over the greater part of the Continent and light to moderate in force; (2) moderate, Southerly and South-Easterly, over the Bay of Biscay, Easterly over the North Sea and British Islands (strong on our north-west coasts), North-Westerly over Finland, Northerly over Sweden. Becoming light and variable over the south-east of England later, and shifting to South-South-West in the west of Norway.

Barometer highest, 30·2 ins. and more to 30·6 ins. over the northern parts of our Islands, the whole of Scandinavia, and greater part of the Baltic; (2) 30·0 ins. and more over the southern half of the Peninsula and also over south-eastern Europe. Lowest, 29·6 ins. and less in a depression lying a little to the west of Scilly; (2) below 29·8 ins. in a shallow system over central Europe; (3) 29·4 ins. and less over northern Russia. The western depression advancing towards again later towards France.

GENERAL NOTES.

During this week a series of complex depressions have been passing over various parts of western Europe and the Baltic, varying greatly in intensity and moving in an unusually irregular manner. They have caused large quantities of rain over the greater part of the United Kingdom (especially the north-east and east of England) as well as over most of the Continental countries; thunderstorms have occurred at times. Temperature has been low; the wind very variable and at times blowing a gale, and the whole condition has been very inclement.

At the close of the week the disturbances seemed to be passing away to the eastward, and a rise of the barometer was in progress in the extreme north-west.

BRIGHT SUNSHINE Values for the Week in addition to those found on page 242.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	6·1	?	8	?	EASTBOURNE	28·5	?	38	?
OSWALDKIRK (Yorkshire)	13·9	?	18	?	TENBY	29·7	?	40	?
WORKSOP	20·8	+ 1·7	28	+ 2	NEWQUAY	28·7	?	38	?
THURCASTON (Leicestershire)	20·1	+ 0·9	27	+ 1	TORQUAY	26·9	?	35	?
MARGATE	22·3	?	30	?	ARLEY COTTAGE (County Cavan)	23·9	?	32	?
WESTBOURNE (Sussex)	29·5	?	39	?	GUERNSEY	22·1	?	29	?
BRIGHTON	26·9	?	36	?					

The values at Westbourne, Tenby, Torquay and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

Date of Report.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each Day.	Of Lowest each Day.	For whole of each Day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
July 2nd, 1892.	Glenlee	66	40	63·4	46·7	54·5	−1·2	88	0	6	1·14	+0·32	—	—	—	—
,, ,, ,,	Llandudno	72	48	66·3	52·8	59·1	+0·4	120	0	5	1·39	+0·92	—	—	—	—
,, 9th, ,,	Scarborough	73	47	66·3	51·9	58·6	+0·2	116	0	7	0·45	−0·12	—	—	—	—
,, ,, ,,	Cambridge	—	—	—	—	—	—	—	—	—	—	—	55·7	+12·7	49	+11
,, ,, ,,	Llandudno	69	52	64·4	53·3	58·4	−1·1	115	0	6	0·38	−0·13	—	—	—	—
,, 16th, ,,	Blackpool	69	41	63·5	49·4	56·0	−3·2	98	0	1	0·10	−0·60	33·0	−10·3	26	−9
,, 23rd, ,,	Llandudno	—	—	—	—	—	—	—	—	—	—	—	32·0	−4·8	29	−4
,, ,, ,,	Edgeworthstown	?	40	?	47·3	?	?	?	0	2	0·08	−0·77	—	—	—	—
,, 30th, ,,	York	—	—	—	—	—	—	—	—	—	—	—	35·5	0·0	32	−1
Aug. 6th, ,,	Guernsey	—	—	—	—	—	—	—	—	—	—	—	72·2	?	69	?
,, 13th, ,,	Edgeworthstown	70	42	65·7	48·1	56·4	−1·0	101	0	4	2·47	+1·65	—	—	—	—
,, 20th, ,,	Newquay	—	—	—	—	—	—	—	—	—	—	—	45·6	?	46	?
,, ,, ,,	Churchstoke	71	39	67·4	50·8	58·6	+1·2	116	0	3	0·13	−0·47	41·3	+4·0	41	+4
Sept. 24th, ,,	Newquay	—	—	—	—	—	—	—	—	—	—	—	28·1	?	33	?
Oct. 1st, ,,	Lairg	57	30	52·2	37·9	44·7	−4·1	36	11	7	0·84	+0·01	—	—	—	—

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WEEKLY WEATHER REPORT.

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VOL. IX. No. 42.] *Third Series.* WEEK ENDING SATURDAY, 22ND OCTOBER, 1892. [*Price 6d.* [*Annual subscription, post paid*, £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years' observations (1871–90). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the ten years 1881-90. RAINFALL.—*The Mean amounts* are those for the corresponding periods in the twenty-five years 1866–90, but the *Mean numbers of Rainy Days* are those for the ten years 1881-90, only. BRIGHT SUNSHINE.—*The Mean values* employed are those for the corresponding periods in the ten years 1881–90.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 248.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1892. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	51	24	44·2	34·0	39·0	6 below.	6	−26	29	+21	1614	−123	797	+238
	1. SCOTLAND, EAST -	54	27	45·8	34·6	40·1	5 below.	11	−26	28	+19	1889	−321	851	+265
	2. ENGLAND, N.E. - -	51	30	46·1	37·1	41·5	6 below.	11	−30	19	+14	2157	−204	703	+195
	3. ENGLAND, EAST -	52	31	48·2	37·2	42·6	5 below.	24	−24	13	+ 5	2553	−182	787	+208
	4. MIDLAND COUNTIES	55	26	47·8	34·4	40·9	6 below.	16	−28	29	+19	2507	−171	841	+263
	5. ENGLAND, SOUTH -	55	27	49·9	36·9	43·2	6 below.	30	−24	14	+ 8	2812	−146	570	+141
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	52	27	47·2	34·7	40·8	6 below.	15	−26	28	+22	2051	−222	642	+215
	7. ENGLAND, N.W. -	53	30	47·0	38·6	42·7	5 below.	19	−26	19	+ 6	2314	−155	589	+170
	8. ENGLAND, S.W. -	57	20	49·9	36·1	42·8	7 below.	30	−24	17	+14	2624	−122	451	+129
	9. IRELAND, NORTH -	52	25	48·2	37·3	42·6	5 below.	24	−20	13	+ 9	2238	−181	502	+135
	10. IRELAND, SOUTH -	53	24	49·2	35·5	42·3	7 below.	29	−23	18	+14	2613	−115	433	+150
	— CHANNEL ISLANDS -	55	38	51·9	43·5	47·6	5 below.	39	−32	0	0	3113	+ 17	164	+ 42

Rainfall.

	DISTRICTS. (See p. 248.)	For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1892. Number of Rainy Days.	Difference from Mean.	Total Fall.	Difference from Mean.
			10ths of In.	10ths of In.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	6	6	6 less.	206	+14	39·3	+ 1·8
	1. SCOTLAND, EAST -	4	5	2 less.	164	+ 6	23·3	− 1·8
	2. ENGLAND, N.E. - -	6	13	6 more.	160	+14	22·4	+ 1·5
	3. ENGLAND, EAST -	5	7	1 more.	148	+ 6	22·3	+ 1·6
	4. MIDLAND COUNTIES-	5	3	4 less.	143	+ 3	19·6	− 3·3
	5. ENGLAND, SOUTH -	3	2	5 less.	126	−10	18·0	− 3·8
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	3	3	8 less.	162	− 3	36·0	− 2·7
	7. ENGLAND, N.W. - -	4	7	2 less.	166	+14	31·0	+ 3·6
	8. ENGLAND, S.W. - -	4	5	5 less.	150	− 7	23·7	− 7·9
	9. IRELAND, NORTH -	5	5	4 less.	181	+ 1	30·2	+ 1·1
	10. IRELAND, SOUTH -	2	2	7 less.	155	− 8	29·8	+ 1·1
	— CHANNEL ISLANDS -	5	5	5 less.	148	−18	21·9	− 3·4

Bright Sunshine.

	DISTRICTS. (See p. 248.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1892. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	17	+ 2	24	+ 4	1046	− 22	26	− 1
	1. SCOTLAND, EAST -	16	+ 6	23	+ 6	1223	− 14	32	0
	2. ENGLAND, N.E. - -	22	+ 5	31	+ 6	1190	+ 49	31	+ 1
	3. ENGLAND, EAST -	23	0	33	0	1415	+ 31	37	+ 1
	4. MIDLAND COUNTIES-	28	+ 9	39	+11	1342	+102	35	+ 2
	5. ENGLAND, SOUTH -	31	+10	43	+12	1554	+206	41	+ 6
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	29	+12	42	+17	1320	+ 95	34	+ 2
	7. ENGLAND, N.W. - -	26	+10	37	+13	1307	+ 92	34	+ 3
	8. ENGLAND, S.W. - -	39	+17	55	+22	1562	+105	41	+ 3
	9. IRELAND, NORTH -	25	+ 4	35	+ 6	1176	+ 61	31	+ 2
	10. IRELAND, SOUTH -	37	+16	52	+23	1299	− 3	34	0
	— CHANNEL ISLANDS -	32	+11	44	+15	1842	+133	48	+ 3

Bright Sunshine.—For several of the stations there are no "mean" values available, and the "difference from the mean" in some of the districts is consequently that of only a few of the stations.

General Remarks.

Weather, though still rather showery and unsettled, was much brighter over the Kingdom generally than for some weeks past; in the north-eastern parts of the country, however, considerable falls of rain, hail, or snow, were experienced.

Temperature was much below the mean, the deficit ranging from 5° to 7°. The highest of the maxima, which were recorded on very irregular dates, varied from 57° in England S.W. and 55° in the Midland Counties, England S., and the Channel Islands, to 51° in Scotland N., and England N.E. On some days the thermometer scarcely rose above 40° in the north, and did not reach 50° even in the south. The absolute minima were registered, as a rule, during the middle part of the week and were unusually low for the time of year. In England S.W. (at Llandovery) the sheltered thermometer fell to 20°, and in nearly all other districts to between 24° and 30°; in England E., however, the lowest reading was 31° and in the Channel Islands 38°.

Rainfall considerably exceeded the mean in England N.E., and slightly in England E.; in all other districts there was a deficit, the fall over the southern parts of Ireland and England being especially slight.

Bright Sunshine was fairly prevalent, and exceeded the mean in almost all districts; the percentage of the possible duration ranged from 23 in Scotland E., and 24 in Scotland N., to between 34 and 44 in most other districts, while in Ireland S. the percentage was 52, and in England S.W. 55.

Barometer and Wind.—During the whole of this period the barometer was highest in the west and lowest in the east. No depression appeared directly over our Islands, but some disturbances existing over the North Sea, both at the beginning and end of the week caused the Northerly winds to increase considerably in force, especially on our eastern coasts.

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II.—DATA from which the SUMMARY on page 247 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°				Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head ⚓	45	34	43·6	35·9	39·6	− 5·4	4	21	6	0·87	−0·10	*	*	*	*
	Stornoway	48	32	44·7	33·4	38·9	− 6·3	8	31	6	0.40	−0·75	21·0	+2·3	31	+4
	Wick	46	31	44·1	35·3	39·6	− 5·7	6	24	7	0·71	+0·01	*	*	*	*
	Lairg ⚓	49	24	42·9	31·2	36·9	− 7·9	3	37	7	0·86	−0·06	*	*	*	*
	Glencarron ⚓	48	26	43·1	32·1	37·4	− 7·1	3	34	6	1·19	−0·86	*	*	*	*
	Fort Augustus ⚓	51	30	45·7	34·2	39·8	− 5·6	10	29	? 5	? 0·35	? −0·57	6·9	?	10	?
	Fort William ⚓	50	30	45·4	36·0	40·6	− 6·0	10	23	2	0·08	−1·74	21·9	?	32	?
1. SCOTLAND, E.	Nairn	49	33	45·4	35·4	40·3	− 5·3	10	25	5	0·27	−0·26	*	*	*	*
	Aberdeen	50	35	44·7	36·3	40·4	− 6·0	8	21	6	1·23	+0·57	24·2	+4·2	35	+6
	Braemar ⚓	46	27	41·2	31·9	36·4	− 6·1	0	39	5	0·42	−0·47	7·8†	?†	11†	?†
	Ochtertyre ⚓	54	29	50·0	32·4	41·0	− 4·0	22	38	0	—	−0·98	*	*	*	*
	Leith	51	33	48·6	36·9	42·6	− 4·8	26	14	2	0·33	−0·12	*	*	*	*
	Marchmont ⚓	50	30	45·0	34·9	39·8	− 4·9	8	26	6	0·98	+0·22	20·3	?	29	?
2. ENGLAND, N.E.	Alnwick Castle	49	32	44·7	36·9	40·7	− 5·8	8	19	7	1·76	+1·08	*	*	*	*
	Durham	51	31	46·2	35·0	40·4	− 5·9	12	26	6	1·12	+0·45	17·0	−1·4	24	−2
	Shields	50	31	46·3	36·9	41·5	− 5·5	12	20	6	1·52	+0·98	*	*	*	*
	Scarborough ⚓	47	32	45·6	36·7	41·0	− 7·0	10	20	7	1·61	+0·91	*	*	*	*
	York	50	30	47·1	36·6	41·7	− 5·3	14	21	6	0·69	+0·09	27·5	+9·5	39	+14
	Spurn Head	49	37	46·6	40·3	43·4	− 5·5	17	5	6	0·78	+0·27	*	*	*	*
3. ENGLAND, E.	Hillington ⚓	50	33	47·4	37·5	42·3	− 5·4	21	13	6	1·45	+0·85	21·2	+0·7	30	+1
	Yarmouth	50	36	47·6	40·9	44·2	− 4·4	20	3	6	0·86	+0·19	*	*	*	*
	Geldeston	52	33	49·2	37·5	43·2	− 5·4	27	13	5	0·62	+0·02	25·6	+1·4	36	+3
	Cambridge	50	32	49·3	35·1	42·0	− 5·8	20	19	6	0·49	−0·03	19·9	−3·1	28	−5
	Rothamsted	49	31	47·4	35·1	41·1	− 5·7	15	27	4	0·20	−0·45	26·4	?	37	?
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	51	29	47·3	33·9	40·4	− 6·6	15	31	6	0·52	−0·08	*	*	*	*
	Loughborough	55	26	49·1	34·3	41·5	− 5·8	20	31	4	0·19	−0·43	*	*	*	*
	Stamford (Ketton Hall)	52	30	50·1	36·1	42·9	− 4·4	31	17	5	0·21	−0·44	*	*	*	*
	Cheadle ⚓	49	32	45·7	34·1	39·7	− 6·1	10	29	5	0·59	−0·22	*	*	*	*
	Churchstoke ⚓	50	26	45·6	32·9	39·1	− 7·2	10	33	4	0·15	−0·62	21·6	+ 2·4	30	+ 3
	Hereford ⚓	53	26	48·0	35·6	41·6	− 5·8	17	25	3	0·19	−0·42	*	*	*	*
	Cirencester	51	32	47·9	35·1	40·3	− 6·3	17	34	4	0·13	−0·55	34·3	+12·5	48	+18
	Oxford	51	30	48·9	35·0	41·7	− 6·1	19	28	5	0·46	−0·09	28·0	+ 5·8	39	+ 9
5. ENGLAND, S.	London	52	31	49·1	36·3	42·5	− 6·3	27	16	3	0·05	−0·52	21·9†	+ 5·3†	30†	+ 7†
	North Foreland	52	36	48·6	41·0	44·7	− 4·9	23	3	3	0·48	?	*	*	*	*
	Strathfield Turgiss ⚓												*	*	*	*
	Dungeness	55	34	50·6	36·3	43·2	− 7·2	32	16	3	0·14	−0·60	*	*	*	*
	Hastings (St. Leonards)	54	34	50·0	36·9	43·3	− 7·0	31	14	2	0·03	−0·78	35·7	+ 9·4	50	+13
	Southampton	55	31	52·2	35·8	43·8	− 5·8	39	17	3	0·10	−0·61	35·6	+11·1	49	+16
	Hurst Castle	53	32	50·9	37·4	44·0	− 6·6	33	13	4	0·19	−0·56	*	*	*	*
	Stowell ⚓	51	27	47·6	34·6	40·9	− 6·6	16	28	5	0·35	?	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	49	31	47·1	34·1	40·4	− 6·1	14	29	5	0·26	−1·53	*	*	*	*
	Glasgow	49	31	44·3	35·4	39·7	− 6·4	6	24	3	0·19	−0·66	30·0	+16·6	43	+24
	Ardrossan	51	30	49·0	35·9	42·3	− 5·6	28	17	1	0·02	−0·85	*	*	*	*
	Glenlee ⚓	52	27	47·4	31·5	39·2	− 6·1	15	39	3	0·21	−1·04	*	*	*	*
	Douglas (Isle of Man)	50	32	48·1	36·7	41·2	− 5·7	24	15	5	0·89	−0·07	28·1	+ 6·6	40	+10
7. ENGLAND, N.W.	Newton Reigny	48	30	43·8	34·3	38·9	− 6·1	5	27	4	0·54	−0·28	17·9	+ 1·6	26	+ 2
	Stonyhurst	48	31	45·8	35·7	40·6	− 6·2	11	24	3	0·56	−0·57	29·3	+12·3	41	+17
	Blackpool ⚓	51	35	47·7	39·2	43·3	− 4·6	21	8	3	0·28	−0·64	34·3	+16·3	48	+22
	Manchester	53	32	47·7	36·1	41·7	− 5·3	16	23	5	0·89	−0·02	*	*	*	*
	Liverpool Obsy. (Bidston)	50	36	47·3	39·9	43·5	− 5·0	19	6	5	0·98	+0·20	*	*	*	*
	Llandudno ⚓	52	38	48·7	41·1	44·8	− 5·1	23	3	5	1·27	+0·42	22·7	+ 6·7	32	+ 9
	Holyhead	51	40	48·3	43·9	46·0	− 4·3	28	0	5	0·34	−0·66	*	*	*	*
8. ENGLAND, S.W.	Llandovery	52	20	50·3	29·6	39·6	− 8·4	23	47	4	0·67	−0·58	*	*	*	*
	Pembroke	52	38	49·1	41·3	45·1	− 5·8	25	2	3	0·19	−0·70	39·9	+18·4	55	+24
	Arlington (N. Devon)	49	29	47·6	35·6	41·4	− 7·2	16	25	5	0·81	−0·43	*	*	*	*
	Cullompton ⚓	52	27	49·3	33·7	41·3	− 7·4	20	33	4	0·46	−0·41	32·4	+12·4	45	+18
	Falmouth	52	37	49·9	39·0	44·3	− 6·8	29	8	3	0·79	−0·41	44·8	+19·1	62	+27
	Plymouth															
	Prawle Point	57	35	53·0	37·3	44·9	− 5·9	40	13	3	0·19	−0·64	*	*	*	*
9. IRELAND, N.	Malin Head	49	39	46·4	42·3	44·3	− 2·6	16	0	7	0·37	?	*	*	*	*
	Londonderry	51	32	48·2	38·0	42·9	− 4·5	23	11	6	0·87	−0·10	*	*	*	*
	Edenfel (Omagh)	48	29	47·0	34·7	40·7	− 5·1	14	28	6	0·62	−0·20	*	*	*	*
	Mullaghmore	51	35	48·6	40·6	44·5	− 4·8	23	4	5	0·54	−0·49	*	*	*	*
	Belmullet	51	37	49·1	40·6	44·7	− 5·7	25	4	6	0·66	?	*	*	*	*
	Markree Castle	51	25	48·9	35·1	41·8	− 5·0	19	28	6	0·74	−0·16	21·9	+ 3·1	31	+ 5
	Brookeborough	52	25	49·0	32·9	40·7	− 4·9	20	35	4	0·22	−0·71	*	*	*	*
	Armagh	51	28	48·4	33·9	40·9	− 5·6	18	31	5	0·20	−0·48	22·3	+ 5·5	31	+ 7
	Donaghadee	51	37	48·9	41·1	44·9	− 3·0	24	3	5	0·25	−0·46	*	*	*	*
	Edgeworthstown	51	30	47·4	34·0	40·5	− 5·8	15	30	4	0·27	−0·43	*	*	*	*
10. IRELAND, S.	Dublin	52	32	47·6	36·8	42·0	− 6·8	16	15	4	0·19	−0·51	32·4	+10·6	46	+15
	Parsonstown	51	28	48·3	32·6	40·2	− 6.9	18	36	2	0·15	−0·56	30·5	+10·6	43	+15
	Kilkenny	51	26	47·9	34·4	41·0	− 6·9	17	30	2	0·13	−0·57	*	*	*	*
	Waterford	53	28	49·9	35·6	42·5	− 7·5	30	18	0	—	−0·90	*	*	*	*
	Roche's Point	52	34	50·3	38·4	44·2	− 6·4	31	10	0	—	−0·93	*	*	*	*
	Valencia	52	28	50·4	36·4	43·2	− 7·7	32	16	4	0·10	−1·27	47·5	+25·5	66	+37
	Killarney	54	24	49·8	33·0	41·2	− 8·1	22	36	4	0·57	?	*	*	*	*
	Foynes	53	31	49·0	37·1	42·9	− 4·8	27	14	3	0·23	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	53	42	51·1	43·6	47·2	− 5·6	36	0	4	0·20	−0·66	*	*	*	*
	Jersey	55	38	52·6	43·4	47·9	− 4·8	41	0	5	0·81	−0·25	37·8	+10·6	52	+15

Stations marked ⚓ are in connection with the Royal Meteorological Society, and those marked ⚓ with the Scottish Meteorological Society.

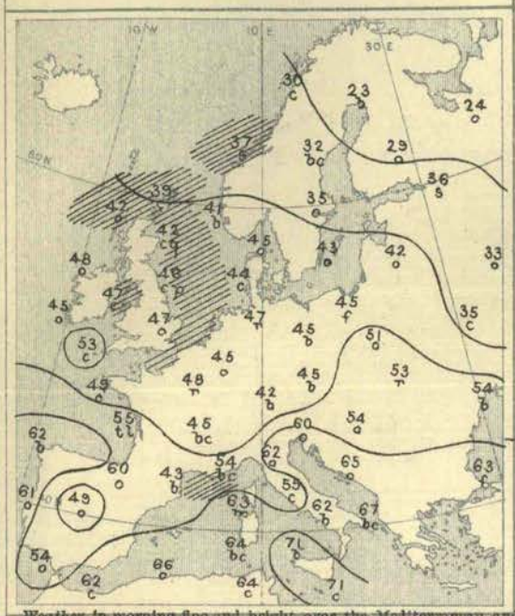
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory and the Meteorological Office, Victoria Street. For additional Reports of Sunshine see last page.

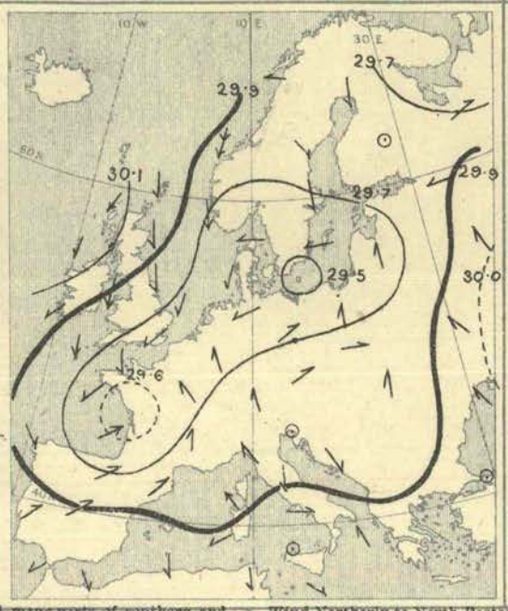
III.—SUMMARY OF WEATHER OVER EUROPE.

Sunday, 16th October.

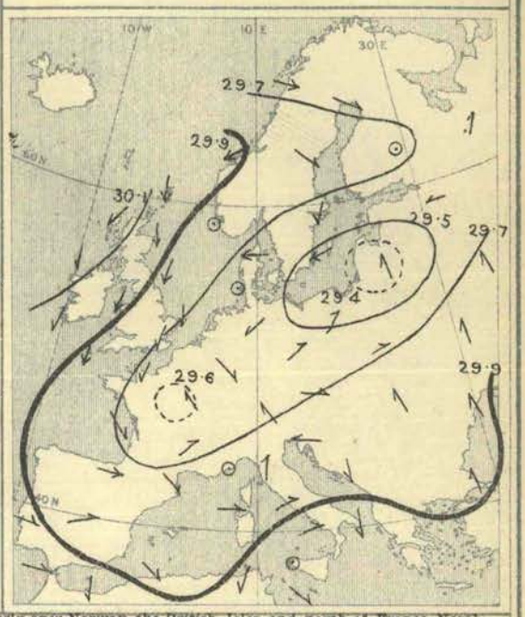
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the Mediterranean and many parts of southern and south-eastern Europe, and also locally at several stations in Ireland and Sweden; very unsettled over France, England, the Netherlands, Denmark, and the Baltic, with rain in several places, and a thunderstorm at Rochefort. Rain falling later over the greater part of the United Kingdom, France, Italy, and countries lying to the eastward of the North Sea, amounts large in several parts of France and northern Italy. Snow reported at Christiansund, and also at Helsingfors and St. Petersburg.

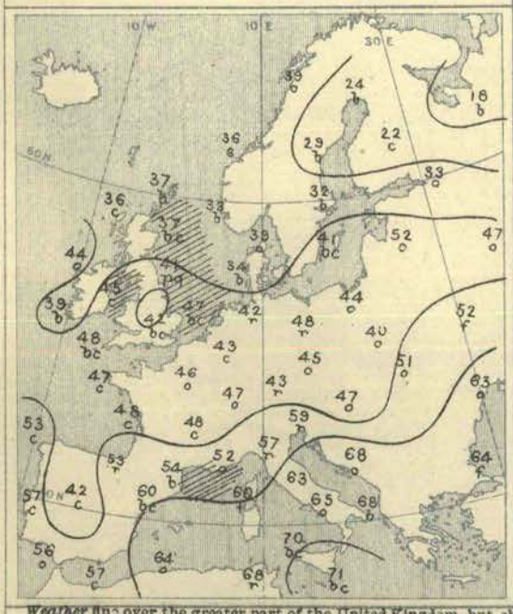
Temperature low for the time of year, ranging between 60° and 70° at most of the Mediterranean stations (71° at Palermo and Malta), but below 50° over all the northern countries, and lowest of all, (1) 23° at Haparanda, 24° at Archangel, 29° at Kuopio, 33° at Moscow, 35° at Kiev and Kharkov, (2) 39° at Sumburgh Head, 40° at at Parsonstown, 42° at Liverpool. Rising during the day to between 50° and 55° in many parts of England and Ireland, rather higher over Germany and the north of France, and to between 63° and 65° in the south of France. Exceeding 70° in Italy and the south of Spain. Ground frost occurring at night in many parts of the United Kingdom.

Wind Northerly to North-Easterly over Norway, the British Isles, and north of France, North-Westerly over the Bay of Biscay, and extremely variable (but chiefly South-Westerly to Westerly) over the Continent, and South-Easterly over the Baltic. The Northerly wind fresh to strong in many places and blowing a gale at Christiansund. Subsequently backing to the Westward in the north of Scandinavia; no important change occurring elsewhere.

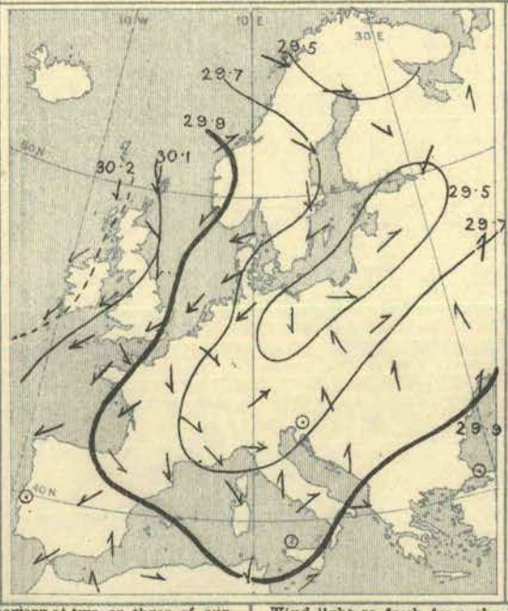
Barometer highest, 30·0 ins. to 29·9 ins. (1) over Ireland and Scotland, (2) over the southern parts of Spain and the Mediterranean, (3) over the Black Sea and southern half of Russia. Lowest, 29·7 ins. and less over nearly the whole of the Bay of Biscay, France, north Germany, and the Baltic; below 29·6 ins. in a "minimum" over the west of France, and about 29·5 ins. in another over the south-east of Sweden. Rising somewhat over the British Islands later, and anticyclone appearing off our north-west coasts. French depression filling up gradually during day.

Monday, 17th October.

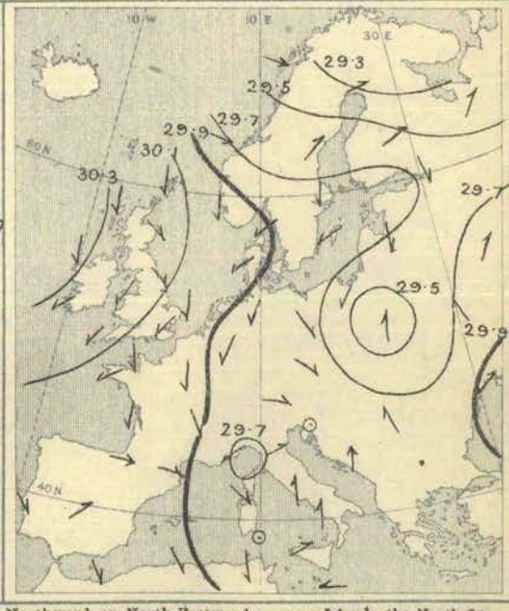
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather fine over the greater part of the United Kingdom, but showery at two or three of our eastern and southern stations. Fine also in Scandinavia and the southern parts of France and Italy, but snow reported at Christiansund. Rainy in Germany and the north of Italy; dull over Russia and Austria, with fog at some of the southern stations. Showers falling during day in many parts of Great Britain, hail or sleet reported at several of our eastern and south-eastern stations; large quantities of rain falling in some parts of France, Germany, and Italy. Aurora seen at night in the northern parts of Scotland and Denmark.

Temperature fallen over Europe generally, but risen slightly in Italy and rapidly over central and northern Russia. Highest morning readings 71° at Malta, 70° at Palermo, and 68° at Lésina, Brindisi, and Tunis; above 60° over the Mediterranean and Adriatic generally, as well as on the shores of the Black Sea. Lowest, (1) 18° at Archangel, 22° at Kuopio, and 24° at Uleaborg; (2) 31° at Parsonstown; (3) 38° at Loughborough and Oxford. Daily maxima below 50° in all but the extreme southern parts of the United Kingdom, sharp frost occurring in many places at night. Daily maxima exceeding 70° at several of the Italian stations, the highest reading of all being 79° at Palermo.

Wind light to fresh from the Northward or North-Eastward over our Islands, the North Sea, Denmark, the Netherlands, and the north of France; North-Westerly in the south of France; South-Westerly or Southerly in Italy, South-Easterly in Austria and the south of Russia. Light to moderate from the Westward over the northern parts of Scandinavia. Chiefly North-Easterly in Spain and South-Easterly in Algeria, but Northerly at Tunis. Wind moderating later in our Islands, no important change occurring elsewhere.

Barometer highest, 30·2 ins. and upwards in a large anticyclone spreading over our extreme western coasts from the Atlantic. Lowest, 29·5 ins. and less in a depression lying over Lapland, and also in an elongated system lying over Prussia and the Baltic Provinces. Shallow disturbances reported over various parts of Germany and Austria. Anticyclone in west subsequently spreading eastwards, and barometer rising in all parts of western Europe. Depression over Baltic Provinces partially filling up during day.

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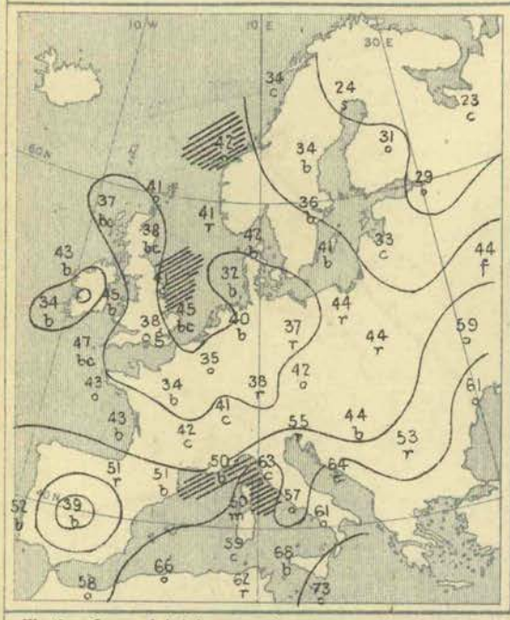
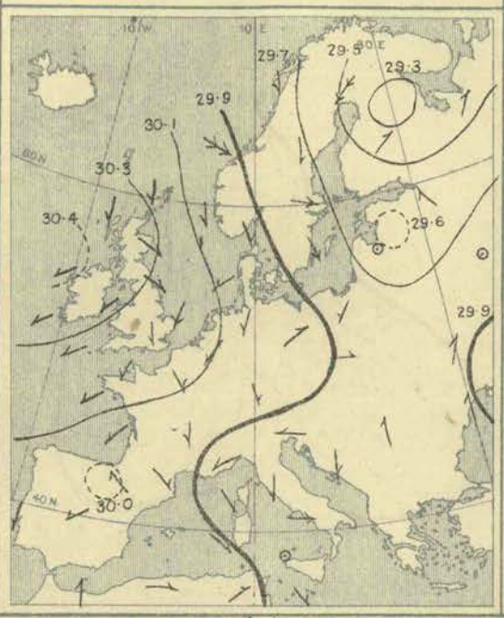
III.—SUMMARY OF WEATHER OVER EUROPE.

Tuesday, 18th October.

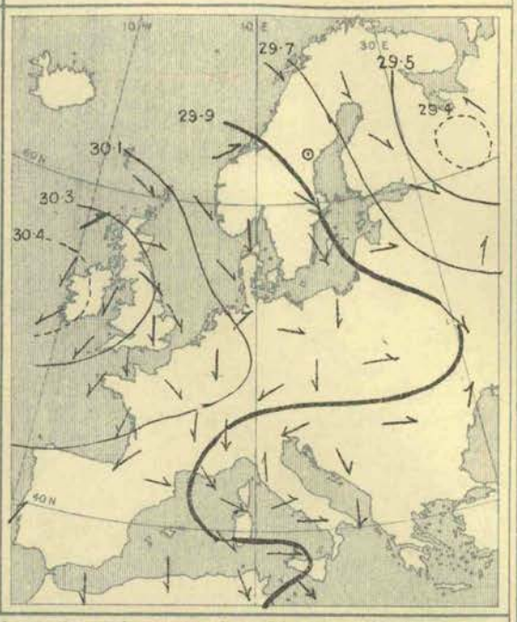
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather fine and bright over the greater part of western Europe, but showery on the east coast of England, and dull in the west of Norway, with rain at Skudesnaes. Rainy at several of the German and Austrian stations; dull over Russia and the greater part of Italy. Heavy showers of hail or cold rain falling later on the east and south-east coasts of England, as well as at some of the French stations. Thunderstorm occurring at Monaco and thunder only heard at Laghouat. Aurora seen in the north of Scotland at night.

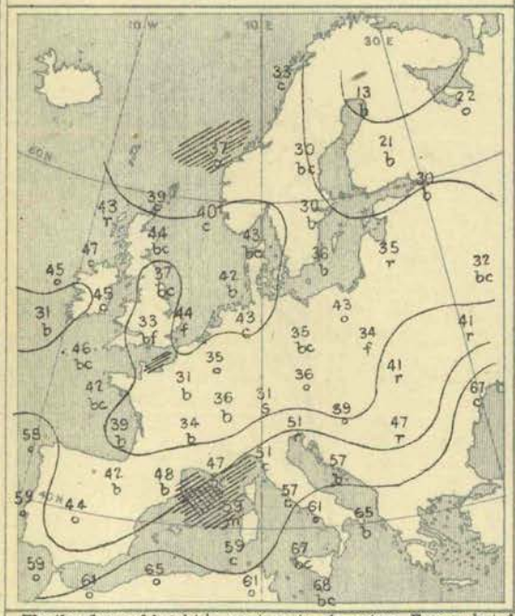
Temperature risen in several parts of Scandinavia and northern Russia, but fallen elsewhere. Highest morning readings 73° at Malta, 68° at Palermo, 66° at Algiers, 65° at Nicolaieff, and 64° at Lésina; above 60° at several of the Mediterranean and Adriatic stations, as well as on the shores of the Black Sea. Lowest, (1) 23° at Archangel, 24° at Haparanda, and 29° at St. Petersburg; (2) 29° at Parsonstown; (3) 33° at Loughborough, and 36° at Oxford and Cambridge; (4) 34° at Paris, and 36° at Mûnster. Daily maxima over our Islands mostly below 50°; sharp frost occurring over the inland parts of England at night. Thermometer rising to 65° and upwards in many parts of southern Europe, and reaching 75° at Palermo.

Wind light from the Northward over the northern parts of our Islands and the North Sea, moderate from the North-Eastward over the greater part of England, Ireland, France, and Spain, but North-Westerly in the south of France, and also over south Germany. Northerly (North-East to North-West) in Scandinavia, with gales at Haparanda and Christiansund, light South-Westerly over northern Russia, but Southerly in the south of that country. Chiefly Westerly in Italy and Southerly in Algeria. Subsequently backing to the Westward or South-Westward in the north of Scotland and the west of Norway; no important change occurring elsewhere.

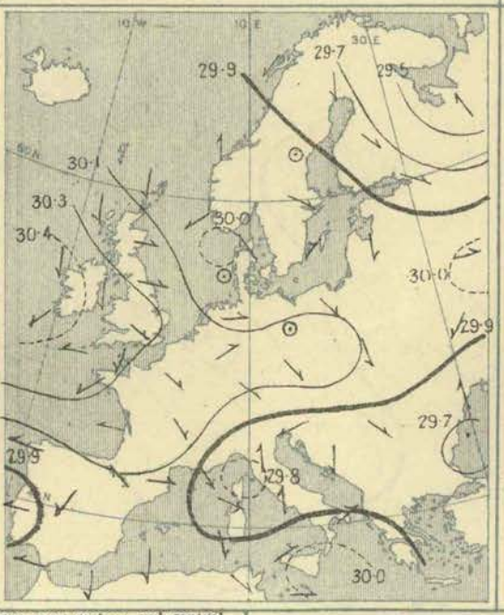
Barometer highest, 30·1 ins. to 30·4 ins. in a large anticyclone extending from the Atlantic over our Islands, the North Sea, and the North of France. Lowest, 29·3 ins. and less in a large, but somewhat shallow, depression over Lapland; 29·8 ins. and less in an ill-defined and much shallower system over Italy. Anticyclone continuing to spread eastwards during day, but barometer beginning to fall slightly in Scotland. Depression over Lapland moving slowly in an east-south-easterly direction.

Wednesday, 19th October.

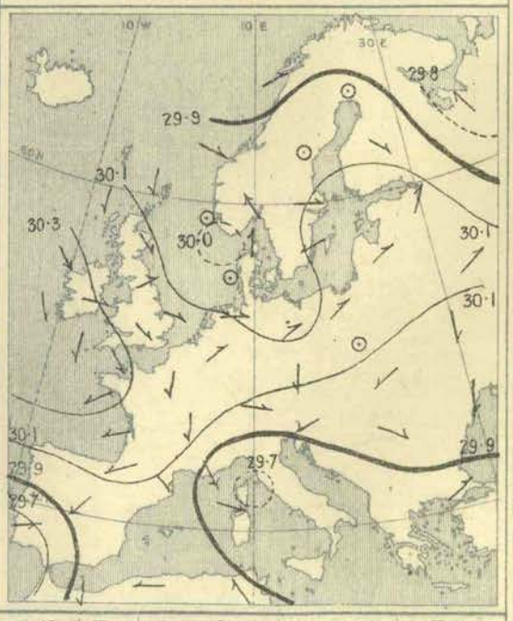
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather fine and bright in most parts of western Europe, but foggy over eastern and central England and showery on some parts of our extreme north-west coasts. Fine also in Sweden and Finland, as well as over the Adriatic, but dull in Spain, Algeria, Germany, and Austria, with snow at Munich and rain at Hermanstadt; rain and fog reported over the western and southern parts of Russia. Showers occurring during day in nearly all the more northern and eastern parts of our Islands, heavy rains in Spain and the south of Russia, and a considerable fall of snow at Munich.

Temperature risen a little in the north of our Islands, as well as in Spain and Algeria, but fallen in most other parts of Europe. Highest morning readings, 68° at Malta, 67° at Palermo and Odessa, 65° at Brindisi and Algiers, above 60° over the central and southern parts of the Mediterranean generally. Lowest, (1) 18° at Uleaborg, 17° at Haparanda, 21° at Kuopio, and 22° at Archangel; (2) 27° at Loughborough, and 32° at Oxford; (3) 31° at Paris and Munich. Daily maxima slightly exceeding 50° at some of our western and northern stations, but below it in the south-east of England. Exceeding 55° in the south of France, exceeding 60° over the Spanish Peninsula, and rising to between 70° and 77° in Algeria.

Wind light to moderate from West or North-West in the northern and eastern parts of the United Kingdom, from North in the Channel, and from East over the west of France and the greater part of Spain. Light and variable over northern, eastern, and central Europe generally, as well as in Algeria; North-Westerly over the central and southern parts of France, Westerly to Italy. No important change occurring during day.

Barometer highest, 30·4 ins. and upwards in Ireland; 30·1 ins. and upwards in a large anticyclone covering our Islands and France, and extending eastwards in the form of a broad band over Germany and Poland. Lowest, 29·5 ins. and less in a shallow depression lying over northern Russia, 29·8 ins. and less in another system lying over the Gulf of Genoa; 29·9 ins. and less in a third off the south-west of Spain; 30·0 ins. in a fourth lying off the south of Norway. Barometer falling later in most parts of western Europe, anticyclone partially giving way on its western side, but extending eastwards over Russia; depression off south of Norway moving slowly westwards. Spanish depression growing deeper and advancing north-eastwards.

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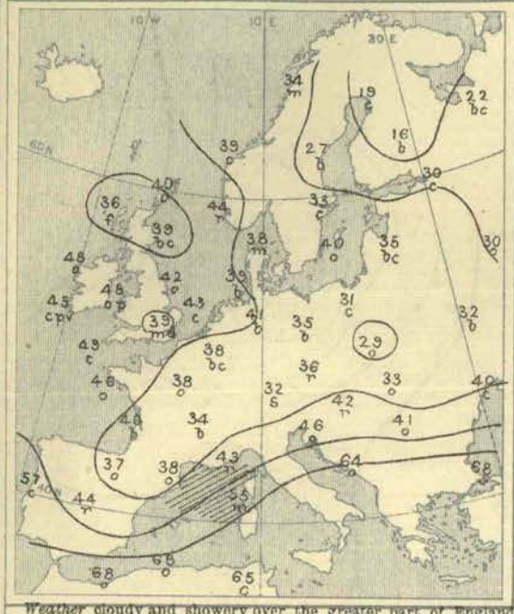
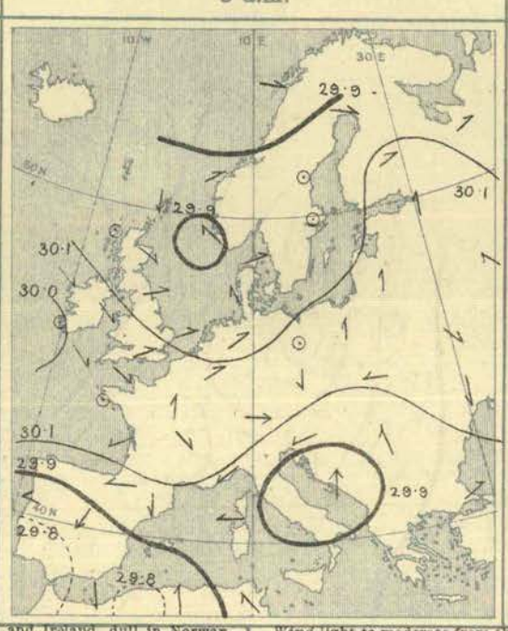
III.—SUMMARY OF WEATHER OVER EUROPE.

Thursday, 20th October.

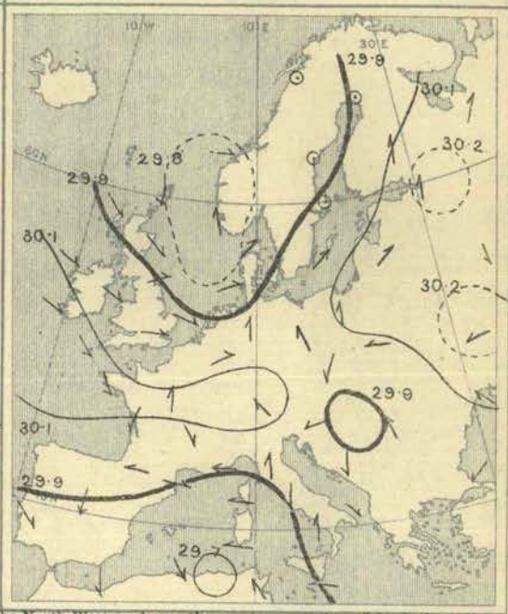
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather cloudy and showery over the greater part of England and Ireland, dull in Norway, Germany, Austria, Spain, Algeria, and the extreme south of France, with rain in many places, and with snow at Munich. Fine and bright in the east of Scotland, and also in Sweden, northern Russia, and the greater part of France. Rain falling later in all the more northern parts of the United Kingdom, and slight showers at some of our southern stations, as well as in Scandinavia, Germany, and the Netherlands. Large falls reported at several of the Austrian and Algerian stations, as well as at Hangö. The newspapers report heavy rainfall and serious floods in Sardinia.

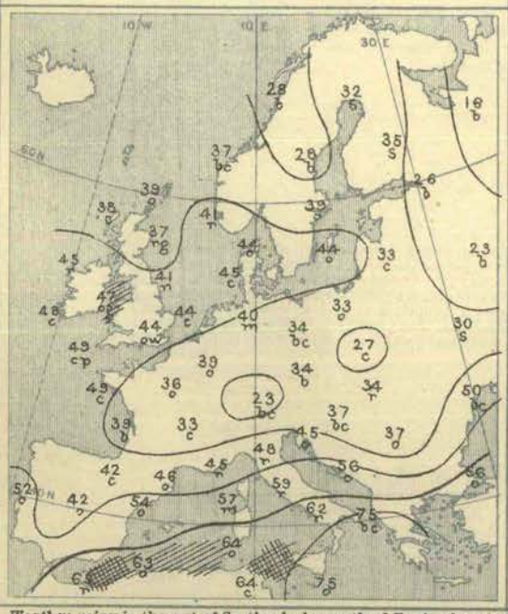
Temperature risen over Ireland, England, and France, but fallen in most other parts of Europe. Morning readings highest, 68° at Oran and Algiers, 65° at Nemours and La Calle, and 64° at Lesina (Italian reports not to hand). Lowest, 16° at Kuopio, 19° at Uleaborg, 22° at Archangel, and 27° at Hernösand; below the freezing point in most parts of Sweden and Russia. Daily maxima varying between 50° and 55° in many parts of Ireland, England, and France. Thermometer rising to 60° and upwards over the southern parts of the Spanish Peninsula, and to 70° or more in the south of Italy.

Wind light to moderate from the North-Westward over the greater part of our Islands, from the South-Westward over the Netherlands and north Germany, and from the South-Eastward over the Gulf of Finland and the southern parts of Scandinavia. Easterly or North-Easterly over Spain and the west and south of France; variable in Austria, North-Westerly or Northerly in the south of Russia. No important change occurring during day.

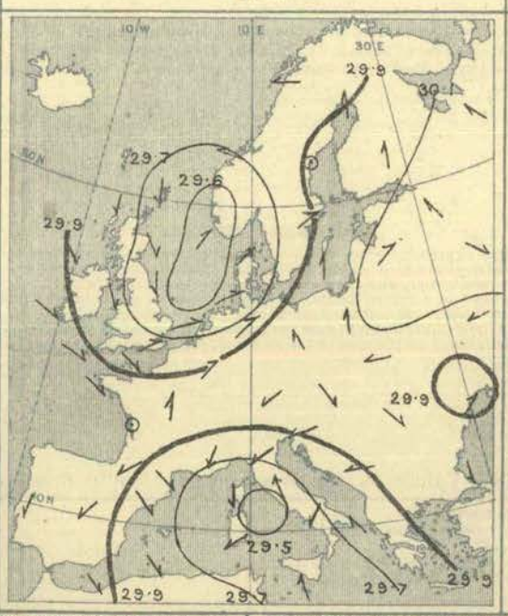
Barometer highest, 30·3 ins. and upwards in a small area lying off the north-west of Ireland; 30·1 ins. and upwards in a broad anticyclonic band stretching from the Atlantic across Ireland and the west and south of England, France, and Germany to Russia. Lowest, 29·8 ins. and less in a depression lying over the south of Spain, and also (apparently) in another system lying over Italy; 29·9 ins. and less in a shallow disturbance lying off the south-west of Norway. Fall taking place during day in all parts of western Europe, but no important change observed in the general distribution of pressure. Italian depression passing on to Transylvania.

Friday, 21st October.

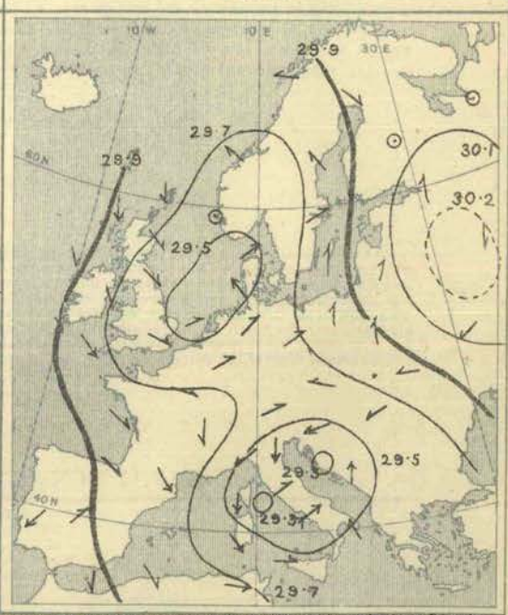
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather rainy in the east of Scotland, the north of England, and the central parts of Ireland, and showery in most other portions of the United Kingdom. Very unsettled also at the Continental stations, with rain and snow in Russia, and with rain over the greater part of Italy, and the south of France. Fine over the west of France, south Germany, and the neighbouring Austrian Provinces. Rain falling during day in nearly all parts of Europe, heavily in Italy; hail and sleet reported in the north of our Islands. Thunderstorms occurring in Holland, with heavy rain (1·9 ins.) at the Helder.

Temperature highest, 75° at Brindisi and Malta, 60° to 65° in Algeria, 50° to 52° in Portugal. Lowest, (1) 16° at Archangel, 23° at Moscow, and 26° at St. Petersburg; (2) 23° at Munich; below the freezing point at most of the Russian stations, and very little above it in the central parts of France and Germany; below 40° in Scotland. Daily maxima below 50° in all but the southern parts of our Islands, and below 45° at many of the northern stations. Thermometer exceeding 60° in many parts of Spain and northern Italy, and exceeding 70° in the south of Italy, the highest reading of all being 79° at Palermo.

Wind light to fresh from the Northward or North-Westward in the west and north of our Islands, but South-Westerly in the south-eastern districts, as well as over the Netherlands, Denmark, and the south of Scandinavia. Southerly over Finland and the Baltic; light from East in the west of Norway. South-Easterly in Italy, North-Easterly over Spain and the south of France, South-Westerly in Algeria. Cyclonic circulation of light winds reported over the south of Russia; variable breezes in Austria and south Germany. Cyclonic circulation of strong winds or gales reported in evening over Italy, the Adriatic, and the adjacent parts of the Mediterranean.

Barometer highest, 30·1 ins. and upwards in a large anticyclone covering the greater part of Russia; 30·0 ins. and upwards in another area lying to the south-westward of our Islands. Lowest, 29·5 ins. and less in a depression lying between the Italian and Sardinian coasts; 29·6 ins. and less in an elongated system covering the greater part of the North Sea; 29·9 ins. and less in a shallow disturbance over the south of Russia. Depression over North Sea subsequently moving slowly eastwards and becoming deeper; barometer rising in the north and north-west of our Islands.

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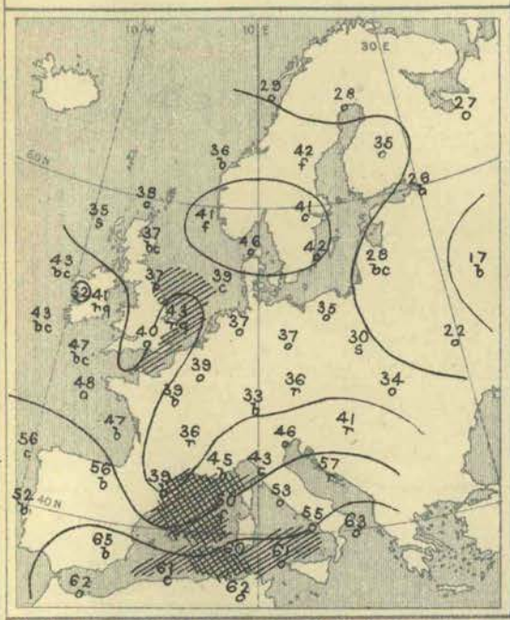
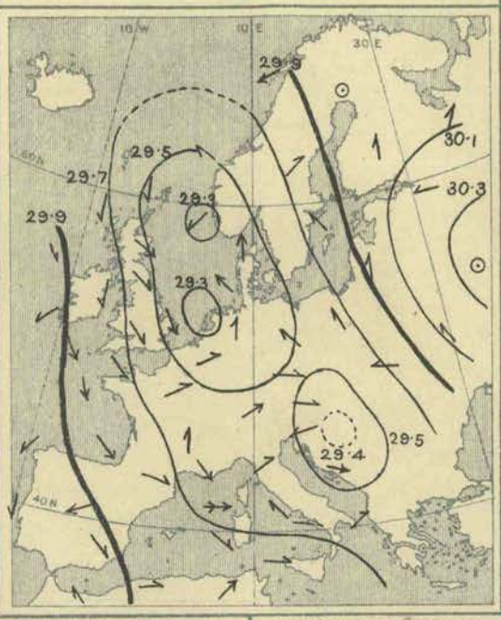
III.—SUMMARY OF WEATHER OVER EUROPE.

Saturday, 22nd October.

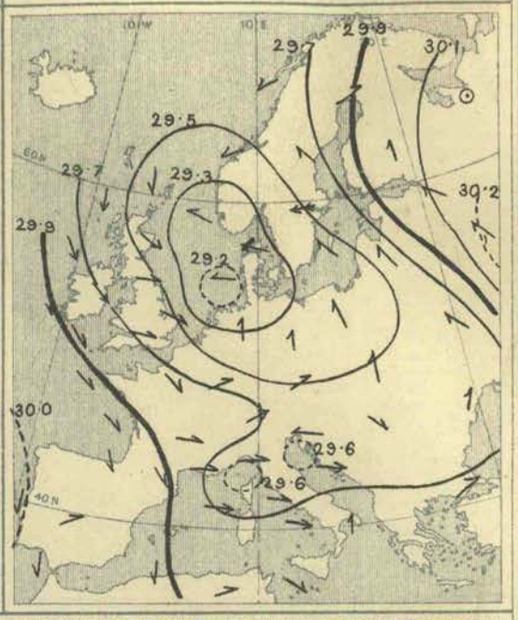
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



6 p.m.



Weather changeable and showery over all the more northern and eastern parts of the United Kingdom, but fine in the southern districts, as well as in France, Spain, and central Russia. Dull in most other parts of Europe, with rain in Austria and eastern Germany, and with snow in Poland. Rain falling during day in nearly all the more western, central, and northern countries, and snow at some of the Scotch stations; thunderstorm occurring at Wick, and lightning seen at Aberdeen and Prawle Point. Aurora in north of Scotland at night.

Temperature risen a little over France and Germany, but fallen in most other countries. Morning readings highest, 63° at Brindisi, 62° at Oran and La Calle, and 61° at Palermo and Algiers; above 55° over the central and southern parts of the Mediterranean generally. Lowest, 17° at Moscow, 20° at Kharkov, and 22° at Kieff; below the freezing point over Russia and the northern parts of Scandinavia generally, a very little above it in Germany and Austria; below 40° in most parts of the United Kingdom. Daily maxima over our Islands below 50° on all but our extreme south and south-west coasts. Thermometer exceeding 60° in Spain, Italy, and the south of France, and reaching 72° at Malta. Frost occurring in many parts of our Islands at night.

Wind moderate to strong from the Northward or North-Westward over our Islands, France, and Spain; Westerly or South-Westerly over Italy and the Mediterranean, as well as over the greater part of Germany, variable in Austria; Southerly or South-Easterly over Russia, Sweden, Denmark, and the Baltic; Easterly or North-Easterly in the west of Norway. North-Westerly wind subsequently increasing to a gale on the north and north-east coasts of Great Britain, an Easterly gale springing up at Stockholm.

Barometer highest, 30·3 ins. and upwards in an anticyclone lying over central Russia; 29·9 ins. and upwards in a large area extending from the Atlantic over the western parts of Ireland and the Spanish Peninsula. Lowest, 29·3 ins. and less in two small depressions lying respectively off the extreme south of Norway and over Holland and the adjacent parts of the North Sea; 29·4 ins. and less in a shallow system over Transylvania; 29·5 ins. and less in another shallow disturbance lying over the Gulf of Genoa. Depression off south of Norway increasing later both in size and intensity, and barometer falling rather briskly over the northern parts of our Islands.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of the period a large and complex cyclonic system with two distinct minima was moving eastwards across the more central parts of Europe, the weather being changeable and unsettled in all but the extreme southern countries, with snow in some parts of Russia and Scandinavia. As the low pressure area passed away, an anticyclone spread over our Islands from the Atlantic, while depressions appeared respectively over northern and southern Europe. The wind in the more western countries was therefore Northerly, and the weather mostly fair; but over northern Russia, Italy, and the central parts of the Mediterranean distinct cyclonic circulations were observed, with snow in the first-named region, and with heavy rain in many parts of southern Europe. During the latter half of the week a complex area of low pressure was formed gradually over the North Sea, and showery unsettled weather therefore set in over the neighbouring countries, with increasing winds from the North-Westward in our Islands, and with strong winds from East or South-East in Scandinavia. At the close of the time a strong gale was reported on the north and north-east coasts of Great Britain, and a fresh gale at some of the Baltic stations.

BRIGHT SUNSHINE Values for the Week in addition to those found on page 248.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	12·9	?	18	?	EASTBOURNE	37·2	?	52	?
OSWALDKIRK (Yorkshire)	21·5	?	30	?	TENBY	42·3*	?	59*	?
WORKSOP	24·4	+ 6·4	34	+ 8	NEWQUAY	40·7	?	57	?
THURCASTON (Leicestershire)	29·5	+10·8	42	+16	TORQUAY	36·1*	?	50*	?
MARGATE	21·1	?	29	?	ARLEY COTTAGE (County Cavan)	31·5	?	44	?
WESTBOURNE (Sussex)	32·2*	?	45*	?	GUERNSEY	25·3*	?	35*	?
BRIGHTON	35·8	?	49	?					

The values at Westbourne, Tenby, Torquay and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

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VOL. IX. No. 43.] *Third Series.* WEEK ENDING SATURDAY, 29TH OCTOBER, 1892. [*Price 6d.* [*Annual subscription, post paid, £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years' observations (1871-90). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the ten years 1881-90. RAINFALL.—*The Mean amounts* are those for the corresponding periods in the twenty-five years 1866-90, but the *Mean numbers of Rainy Days* are those for the ten years 1881-90, only. BRIGHT SUNSHINE.—*The Mean values* employed are those for the corresponding periods in the ten years 1881-90.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

DISTRICTS. (See p. 254.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1892. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.														
0. SCOTLAND, NORTH	58	19	45·6	33·6	39·4	5 below.	10	−18	31	+22	1624	−143	828	+257
1. SCOTLAND, EAST	59	16	47·2	32·9	39·9	4 below.	15	−16	34	+23	1904	−339	885	+286
2. ENGLAND, N.E.	60	24	48·7	35·4	41·9	4 below.	19	−16	27	+20	2176	−222	730	+216
3. ENGLAND, EAST	62	28	51·0	36·8	43·7	3 below.	34	− 6	15	+ 5	2587	−189	802	+216
4. MIDLAND COUNTIES	61	20	50·5	34·2	42·1	3 below.	33	− 5	22	+11	2540	−175	863	+277
5. ENGLAND, SOUTH	60	24	52·1	38·2	44·9	3 below.	36	−12	11	+ 4	2848	−157	581	+147
Principal Grazing, &c., Districts.														
6. SCOTLAND, WEST	58	17	47·8	35·0	41·2	4 below.	16	−19	27	+19	2067	−242	669	+234
7. ENGLAND, N.W.	59	20	49·4	37·4	43·2	3 below.	28	−11	13	+ 8	2341*	−167	602	+178
8. ENGLAND, S.W.	60	23	51·8	39·9	45·6	3 below.	34	−14	6	+ 3	2658	−137	457	+132
9. IRELAND, NORTH	59	19	50·0	35·4	42·5	4 below.	31	− 7	18	+12	2269	−191	520	+145
10. IRELAND, SOUTH	59	24	51·0	37·7	44·2	4 below.	33	−14	12	+ 7	2646	−130	445	+157
— CHANNEL ISLANDS	62	34	53·5	43·7	48·5	3 below.	46	−20	0	0	3159	− 3	164	+ 42

Rainfall.

DISTRICTS. (See p. 254.)	For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1892. Number of Rainy Days.	Difference from Mean.	Total Fall.	Difference from Mean.
		10ths of In.	10ths of In.			Ins.	Ins.
Principal Wheat-producing Districts.							
0. SCOTLAND, NORTH	5	13	1 more.	211	+14	40·6	+ 1·9
1. SCOTLAND, EAST	5	14	7 more.	169	+ 7	24·7	− 1·2
2. ENGLAND, N.E.	6	7	1 more.	166	+16	23·1	+ 1·6
3. ENGLAND, EAST	5	10	4 more.	153	+ 6	23·3	+ 2·0
4. MIDLAND COUNTIES	4	8	1 more.	147	+ 3	20·4	− 3·2
5. ENGLAND, SOUTH	5	14	7 more.	131	− 9	19·4	− 3·1
Principal Grazing, &c., Districts.							
6. SCOTLAND, WEST	5	24	12 more.	167	− 2	38·4	− 1·5
7. ENGLAND, N.W.	5	9	0 (average).	171	+15	31·9	+ 3·6
8. ENGLAND, S.W.	5	13	2 more.	155	− 6	25·0	− 7·7
9. IRELAND, NORTH	5	10	2 more.	186	+ 2	31·2	+ 1·3
10. IRELAND, SOUTH	4	14	5 more.	159	− 8	31·2	− 0·4†
— CHANNEL ISLANDS	7	20	10 more.	155	−16	23·9	− 2·4

Bright Sunshine.

DISTRICTS. (See p. 254.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1892. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.								
0. SCOTLAND, NORTH	18	+ 1	27	+ 1	1064	− 23	27	0
1. SCOTLAND, EAST	23	+10	35	+13	1246	− 9	32	0
2. ENGLAND, N.E.	17	+ 2	25	+ 2	1207	+ 54	31	+ 2
3. ENGLAND, EAST	22	+ 1	32	+ 1	1437	+ 35	37	+ 1
4. MIDLAND COUNTIES	21	+ 4	31	+ 4	1363	+108	35	+ 3
5. ENGLAND, SOUTH	24	+ 6	35	+ 4	1578	+214	41	+ 6
Principal Grazing, &c., Districts.								
6. SCOTLAND, WEST	22	+ 7	32	+ 8	1342	+100	34	+ 2
7. ENGLAND, N.W.	22	+ 8	32	+10	1329	+100	34	+ 3
8. ENGLAND, S.W.	20	0	29	0	1532	+109	41	+ 3
9. IRELAND, NORTH	28	+11	41	+17	1204	+ 70	31	+ 2
10. IRELAND, SOUTH	26	+ 6	38	+10	1325	+ 5	34	0
— CHANNEL ISLANDS	17	− 8	24	−10	1859	+129	48	+ 3

Bright Sunshine.—For several of the stations there are no "mean" values available, and the "difference from the mean" in some of the districts is consequently that of only a few of the stations.

General Remarks.

Weather over our Islands was very changeable. Heavy rain occurred from time to time in almost all districts, but over the greater part of the Kingdom several intervals of clear bright weather were experienced. During the earlier days of the week showers of sleet or snow were general in the north-west, north, and east.

Temperature continued very low until the week drew towards its close, when it rose with great rapidity and became high for the time of year. The average values for the period were in most districts 3° or 4° below the normal, and in Scotland N. as much as 5°. The absolute minima were registered between the 24th and 26th, when the thermometer fell to 16° in Scotland E., 17° in Scotland W., 19° in Scotland N. and Ireland N., and to between 20° and 26° in all other districts except the Channel Islands, where the lowest reading was 34°. The highest of the maxima, which were recorded either on the 28th or 29th, varied from 58° in Scotland N. and W. to 62° in England E. and the Channel Islands.

Rainfall just equalled the mean in England N.W., but exceeded it elsewhere; in Scotland E. and W., England S., and the Channel Islands the excess was large.

Bright Sunshine exceeded the mean in nearly all districts, the percentage of possible duration ranging from 38 to 41 in Ireland, from 25 to 35 in England, and from 27 to 35 in Scotland. In the Channel Islands the percentage was only 24.

Barometer and Wind.—At the commencement of the week a depression lay over the North Sea, and strong North-Westerly to Northerly winds or gales prevailed over the United Kingdom. As this system passed away, depressions appeared to the southward of us and caused the wind over our more southern counties to shift to the Eastward. By Thursday, however, a complete change in the distribution of pressure had taken place, owing to a series of large and rather deep depressions approaching our western coasts from the Atlantic. These disturbances brought strong Southerly winds and gales to all parts of the Kingdom, which continued in most districts until the end of the week.

* This value has been altered owing to the receipt of further information.

† The corresponding value in last week's report should read "−0·9."

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II.—DATA from which the SUMMARY on page 253 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°				Inches	Inches.				
0. SCOTLAND, N.	Sumburgh Head ℌ	50	31	45·9	37·0	41·3	− 2·6	11	19	7	1·13	+0·16	*	*	*	*
	Stornoway ℌ	52	27	46·4	34·9	40·5	− 3·6	12	27	6	0·89	−0·26	17·1	+0·9	27	+1
	Wick ℌ	54	25	46·0	35·1	40·4	− 3·6	11	26	7	1·30	+0·60	*	*	*	*
	Lairg ℌ	55	19	45·5	31·4	38·2	− 5·1	10	38	5	1·09	+0·17	*	*	*	*
	Glencarron ℌ	58	21	44·4	31·7	37·9	− 5·1	7	37	5	1·61	−0·56	*	*	*	*
	Fort Augustus ℌ	56	20	?45·1	? 30·7	? 37·7	?− 6·2	? 9	? 40	3	0·70	−0·22	16·5	?	25	?
	Fort William ℌ	53	23	46·0	34·4	40·0	− 5·0	11	28	5	2·52	+0·71	19·7	?	30	?
1. SCOTLAND, E.	Nairn ℌ	57	26	47·3	33·1	40·0	− 4·0	15	33	5	1·36	+0·85	*	*	*	*
	Aberdeen ℌ	57	29	46·9	35·6	41·1	− 3·7	14	25	6	1·25	+0·57	26·4	+7·8	41	+13
	Braemar ℌ	57	16	42·3	29·2	35·6	− 5·4	1	44	5	1·58	+0·68	20·3†	?†	31†	?†
	Ochtertyre ℌ	55	21	49·4	32·3	40·6	− 3·0	21	37	5	2·39	+1·39	*	*	*	*
	Leith ℌ	59	26	50·4	34·0	42·0	− 4·0	22	22	5	0·54	+0·06	*	*	*	*
	Marchmont ℌ	54	26	46·6	33·3	39·8	− 4·6	13	26	5	1·45	+0·65	18·3	?	28	?
2. ENGLAND, N.E.	Alnwick Castle ℌ	54	26	45·7	35·7	40·6	− 4·6	10	24	7	0·93	+0·21	*	*	*	*
	Durham ℌ	60	24	48·0	33·9	40·7	− 4·1	17	31	5	0·58	−0·07	17·2	+0·1	26	+1
	Shields ℌ	59	27	49·7	33·9	41·6	− 4·2	22	32	5	0·53	−0·01	*	*	*	*
	Scarborough ℌ	59	29	48·8	36·7	42·6	− 4·1	26	15	7	1·30	+0·60	*	*	*	*
	York ℌ	60	25	50·6	33·7	41·9	− 3·7	24	33	5	0·74	+0·14	18·4	+2·6	27	+4
	Spurn Head ℌ	58	34	49·4	38·7	43·9	− 3·4	27	9	5	0·37	−0·15	*	*	*	*
3. ENGLAND, E.	Hillington ℌ	60	38	50·2	37·4	43·6	− 2·5	31	13	5	1·34	+0·72	18·5	0·0	27	−1
	Yarmouth ℌ	59	31	49·7	37·4	43·4	− 3·7	29	13	5	0·69	−0·01	*	*	*	*
	Geldeston ℌ	60	30	50·7	38·2	44·3	− 2·5	32	11	6	0·69	+0·09	21·0	−1·0	30	−2
	Cambridge ℌ	62	26	53·3	34·4	43·6	− 2·3	43	21	3	1·01	+0·51	23·7	+2·9	34	+3
	Rothamsted ℌ	60	28	51·1	36·7	43·7	− 1·6	34	15	5	1·44	+0·79	24·5	?	36	?
4. MIDLAND COUNTIES	Bawtry (Hesley Hall) ℌ	60	23	51·1	32·7	41·6	− 3·7	25	37	4	0·32	−0·26	*	*	*	*
	Loughborough ℌ	61	22	52·0	33·0	42·2	− 3·4	39	25	4	0·44	−0·16	*	*	*	*
	Stamford (Ketton Hall) ℌ	60	24	52·6	34·3	43·2	− 2·5	41	22	3	0·76	+0·12	*	*	*	*
	Cheadle ℌ	56	28	48·6	36·0	42·1	− 2·1	26	17	4	0·48	−0·34	*	*	*	*
	Churchstoke ℌ	56	20	47·8	34·4	40·9	− 4·0	16	29	4	0·59	−0·20	18·3	+ 1·1	27	+ 1
	Hereford ℌ	57	23	50·1	34·2	41·9	− 4·1	23	31	4	0·26	−0·34	*	*	*	*
	Cirencester ℌ	57	24	50·6	34·1	42·1	− 2·8	34	22	3	1·58	+0·91	23·1	+ 3·3	33	+ 4
	Oxford ℌ	59	25	51·4	35·1	43·0	− 3·3	36	19	4	1·80	+1·27	22·0	+ 1·6	32	+ 3
5. ENGLAND, S.	London ℌ	60	28	53·0	35·7	44·1	− 3·1	41	18	5	0·88	+0·34	17·8†	+ 3·1†	26†	+ 4††
	North Foreland ℌ	60	33	51·6	39·7	45·5	− 2·4	34	6	4	0·50	?	*	*	*	*
	Strathfield Turgiss ℌ	59	24	51·3	35·1	43·0	− 3·1	36	19	5	1·82	+1·24	*	*	*	*
	Dungeness ℌ	60	29	55·7	37·0	45·1	− 3·7	43	14	6	0·61	−0·17	*	*	*	*
	Hastings (St. Leonards) ℌ	58	31	51·2	40·9	45·9	− 3·0	32	3	5	1·13	+0·31	30·6	+ 6·8	44	+ 9
	Southampton ℌ	60	28	53·1	40·1	46·4	− 1·4	39	5	5	2·31	+1·61	25·5	+ 1·5	34	+ 3
	Hurst Castle ℌ	58	33	52·1	39·6	45·7	− 3·4	36	7	6	2·09	+1·36	*	*	*	*
	Stowell ℌ	57	28	50·6	37·4	43·8	− 2·1	32	13	5	2·11	?	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ℌ	58	25	48·0	33·5	40·7	− 4·4	17	32	5	1·26	−0·59	*	*	*	*
	Glasgow ℌ	55	24	46·5	34·9	40·5	− 4·3	13	27	5	2·25	+1·38	15·3	+ 4·1	23	+ 6
	Ardrossan ℌ	53	28	48·9	36·7	42·6	− 4·1	26	15	5	1·91	+1·03	*	*	*	*
	Glenlee ℌ	55	17	47·5	33·2	40·1	− 3·8	15	33	5	4·31	+3·03	*	*	*	*
	Douglas (Isle of Man) ℌ	54	29	48·2	? 36·6	? 42·2	?− 4·5	? 24	? 15	5	2·12	+1·13	27·6	+ 7·9	41	+12
7. ENGLAND, N.W.	Newton Reigny ℌ	56	20	47·7	31·7	39·5	− 4·1	16	39	5	1·42	+0·58	24·0	+10·0	36	+15
	Stonyhurst ℌ	57	25	46·6	36·4	41·4	− 4·2	13	22	5	1·00	−0·10	22·5	+ 7·5	33	+10
	Blackpool ℌ	57	28	50·4	37·1	43·6	− 3·0	32	14	5	1·11	+0·21	23·7	+ 8·2	35	+12
	Manchester ℌ	58	33	49·8	39·0	44·2	− 1·4	28	8	5	0·79	−0·14	*	*	*	*
	Liverpool Obsy. (Bidston) ℌ	58	30	50·0	37·7	43·7	− 3·4	30	12	5	0·35	−0·40	*	*	*	*
	Llandudno ℌ	59	29	50·7	39·1	44·7	− 3·7	31	8	6	0·82	0·00	16·8	+ 2·1	25	+ 3
	Holyhead ℌ	56	32	50·4	41·0	45·6	− 3·5	29	3	6	1·12	+0·12	*	*	*	*
8. ENGLAND, S.W.	Llandovery ℌ	60	23	52·4	34·4	43·1	− 3·5	40	21	6	0·77	−0·49	*	*	*	*
	Pembroke ℌ	56	34	51·0	42·1	46·4	− 3·3	31	0	4	0·92	+0·04	19·3	− 0·1	28	+ 1
	Arlington (N. Devon) ℌ	58	30	50·7	38·7	44·5	− 2·5	31	9	6	0·94	−0·46	*	*	*	*
	Cullompton ℌ	59	26	52·2	38·4	45·1	− 2·3	37	10	4	1·52	+0·72	21·4	+ 3·6	31	+ 6
	Falmouth ℌ	57	36	51·3	42·2	46·6	− 3·5	32	0	7	2·06	+0·84	16·3	− 2·9	24	−10
	Plymouth ℌ															
	Prawle Point ℌ	56	38	53·0	43·3	48·0	− 1·6	42	0	5	1·50	+0·68	*	*	*	*
9. IRELAND, N.	Malin Head ℌ	56	32	48·6	39·6	44·0	− 1·7	24	7	5	0·70	?	*	*	*	*
	Londonderry ℌ	58	25	51·4	35·8	43·4	− 2·6	36	17	6	1·22	+0·24	*	*	*	*
	Edenfel (Omagh) ℌ	56	21	48·7	34·0	41·1	− 3·5	19	31	5	1·35	+0·54	*	*	*	*
	Mullaghmore ℌ	58	31	50·6	39·6	44·9	− 3·1	30	7	5	0·65	−0·35	*	*	*	*
	Belmullet ℌ	53	33	49·4	38·7	43·9	− 5·3	27	9	5	0·85	?	*	*	*	*
	Markree Castle ℌ	58	19	50·8	32·3	41·3	− 4·4	25	38	5	1·11	+0·20	27·2	+ 9·5	40	+15
	Brookeborough ℌ	59	19	50·4	32·2	41·0	− 3·3	24	38	4	1·51	+0·56	*	*	*	*
	Armagh ℌ	59	22	50·2	34·1	41·9	− 3·1	23	32	4	0·63	−0·04	29·2	+13·7	43	+20
	Donaghadee ℌ	58	21	50·9	35·6	43·0	− 3·8	34	18	6	1·39	+0·64	*	*	*	*
	Edgeworthstown ℌ	59	23	49·3	31·9	40·3	− 4·6	20	38	3	0·71	0·00	*	*	*	*
10. IRELAND, S.	Dublin ℌ	58	28	50·3	37·9	43·9	− 3·8	31	11	4	0·63	−0·05	31·1	+10·8	46	+16
	Parsonstown ℌ	59	24	51·0	33·4	41·9	− 4·0	25	34	4	0·54	−0·16	25·3	+ 6·8	37	+10
	Kilkenny ℌ	57	24	49·9	35·7	42·6	− 4·2	31	18	4	1·02	+0·32	*	*	*	*
	Waterford ℌ	57	26	51·5	38·1	44·6	− 4·3	35	11	3	1·68	+0·80	*	*	*	*
	Roche's Point ℌ	54	34	50·5	41·0	45·7	− 3·7	30	3	3	1·80	+0·85	*	*	*	*
	Valencia ℌ	58	32	52·0	41·1	46·4	− 3·4	35	3	4	2·21	+0·81	22·3	+ 1·6	32	+ 4
	Killarney ℌ	58	27	51·6	35·6	43·4	− 4·8	37	18	3	1·93	?	*	*	*	*
	Foynes ℌ	59	27	51·4	38·7	44·9	− 1·7	34	9	4	1·07	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's) ℌ	57	41	52·3	45·3	49·0	− 2·7	49	0	6	1·61	+0·72	*	*	*	*
	Jersey ℌ	62	34	54·1	42·1	47·9	− 3·1	41	0	7	2·38	+1·32				

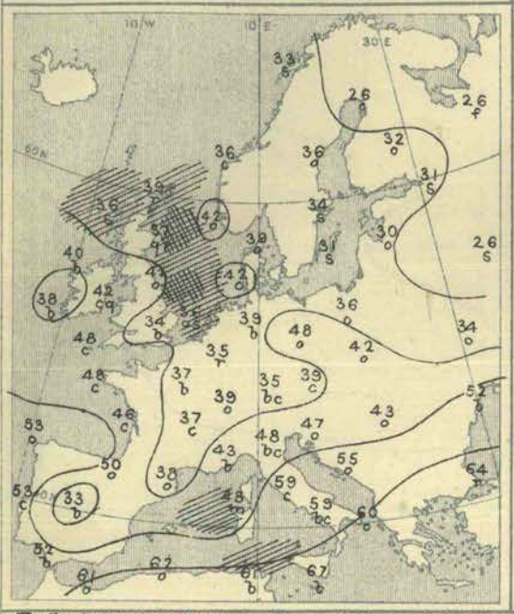
Stations marked ℌ are in connection with the Royal Meteorological Society, and those marked ♆ with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

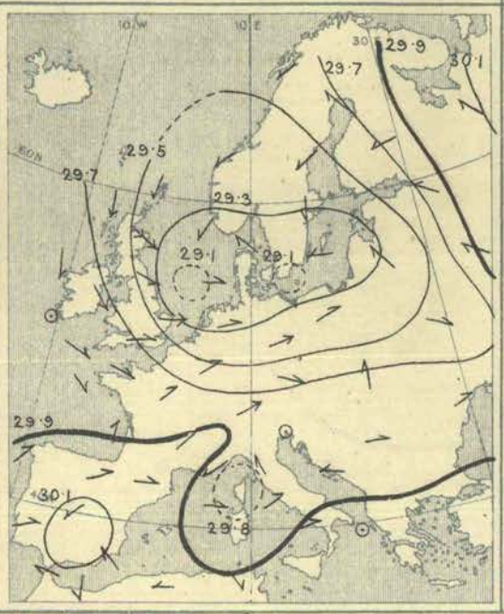
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory and the Meteorological Office, Victoria Street. For additional Reports of Sunshine see last page.

Sunday, 23rd October.

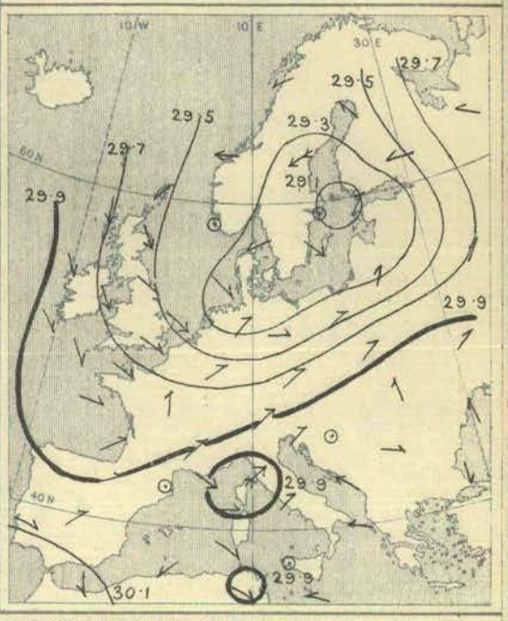
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning still very rough over Scotland and the North Sea, and unsettled over the Baltic, Denmark, and Scandinavia, with rain in many places, sleet in Scotland, snow over the Baltic; fine over Ireland and England, as well as over the Mediterranean and southern Europe. Cold rain, snow, and hail in the north of our Islands, and over northern and central Europe later, the amounts being heavy in many places.

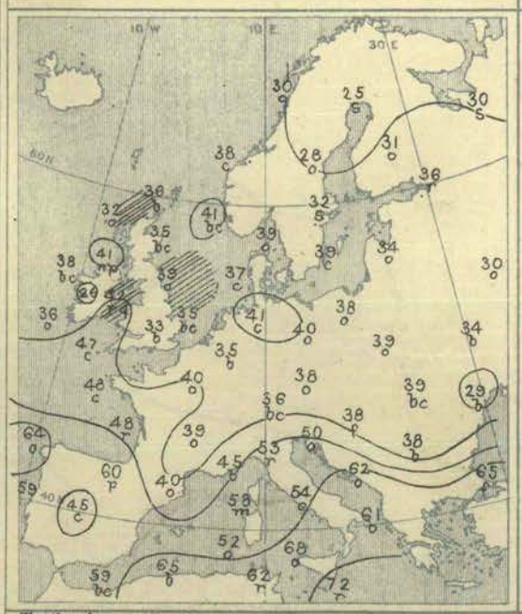
Temperature low generally for the time of year. Morning readings exceeding 60° at only a few even of the Mediterranean stations, and exceeding 50° over some parts of south-western, southern, and south-eastern Europe. Below 40° over nearly all the north-western, northern, and eastern countries, and lowest of all, (1) 26° at Ulcaborg, Archangel, and Moscow, 31° at St. Petersburg; (2) 30° at Parsonstown, 35° to 37° over central England, 37° at Paris and Wiesbaden. Failing to reach 50° in our Islands later, except at a few of the extreme southern stations, but exceeding 60° in the southern parts of France and at Lisbon.

Wind Northerly to Westerly over the United Kingdom. Moderate to strong at the western stations, strong to a gale in the north-east and east; Westerly and fresh over Germany, South-Westerly over the Baltic Provinces, South-Easterly to Easterly over Finland, and North-Easterly over Scandinavia. Very variable in direction, and light in force, over south-eastern Europe, moderate and cyclonic over the Mediterranean. North-Westerly gale moderating over the North Sea later, but a North-Easterly gale setting in at Hernösand.

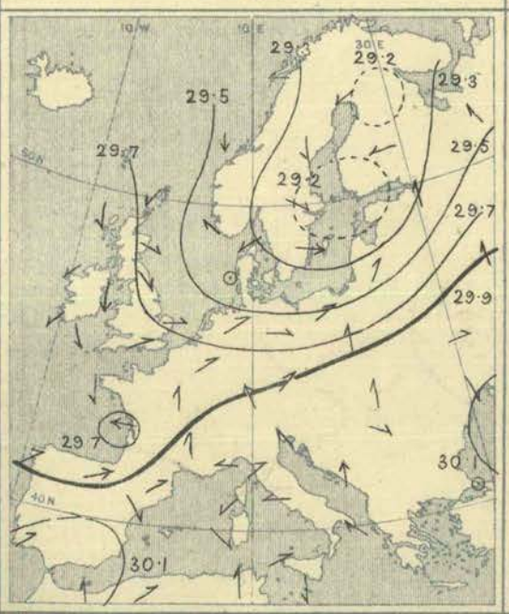
Barometer highest, (1) 30·1 ins. and more to 29·9 ins. over the Peninsula and south-west of France; (2) about 29·1 ins. in two "minima"—one over the North Sea, the other over the south of Sweden—forming together a large complex depression stretching from our east coast to the eastern side of the Baltic. This disturbance undergoing great modification later, and partially filling up, but a new small system appearing over the south-west of France.

Monday, 24th October.

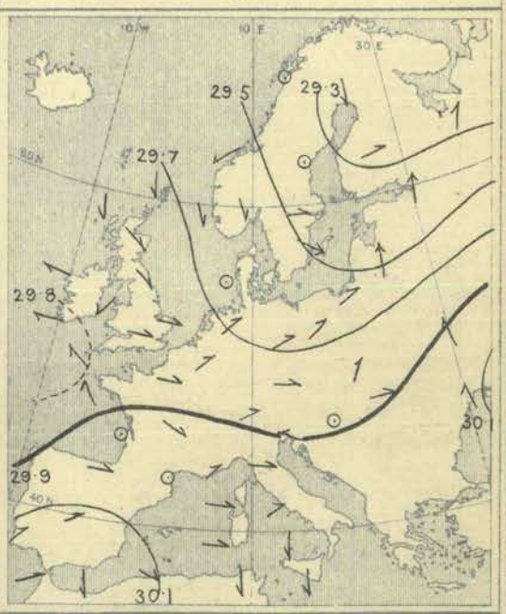
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright in many parts of our Islands and the north of France, as well as over south-eastern Europe and at the Mediterranean stations; very changeable and unsettled elsewhere, with snow and cold rain over northern Europe, rain in Germany, and at several stations in the south-west and south of France. Heavy rain in the south-west of England and the west of France later, and considerable falls in the south; smaller quantities in north Germany, snow and sleet in Scotland. Sky becoming overcast in the south-east of England at night.

Temperature very low for the time of year. Morning readings exceeding 70° at Malta, and exceeding 60° on the eastern, southern, and western shores of the Mediterranean and Adriatic only. Below 40° in most countries, and as low as (1) 25° at Haparanda, 30° at Bodö, Archangel, and Moscow, 34° at Riga, Kieff, and Kharkov; (2) 26° at Parsonstown, 32° at Stornoway and Oxford, 33° in London; (3) 35° at Brussels and Wiesbaden, 36° at Munich, 33° at Vienna. Failing to reach 50° in our Islands later (except at Jersey and Prawle Point) and not exceeding 41° at several northern stations, but touching 63° at Biarritz, 70° in the south of Italy.

Wind (1) Northerly light over Norway, Westerly to South-Westerly, fresh to strong, over the Baltic and Germany; Easterly, light, over Finland and Lapland; (2) Northerly to Westerly over the United Kingdom, North-Easterly over Brittany, but Westerly to South-Westerly in the north of Spain. Becoming Easterly and South-Easterly on our south-western coasts and over Brittany later, but not increasing much in force; Westerly breeze still holding in the south-west of France.

Barometer, 30·1 ins. and more to 29·9 ins. over Spain and the south-western parts of the Mediterranean, and also over south-eastern Europe; exceeding 29·8 ins. over Ireland, the south-west of England, and north of France. Lowest, 29·2 ins. and less in a complex depression over the Baltic and Finland, and 29·7 ins. and less in a small but well-marked system over the south-west of France. Latter system apparently moving eastwards later and a new one approaching our south-western coasts from the Atlantic.

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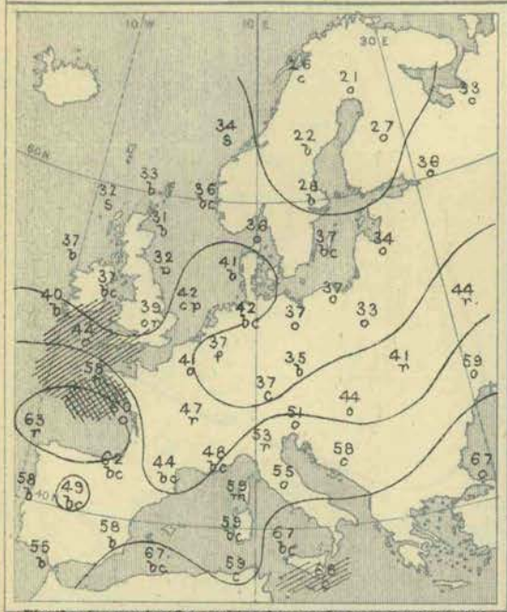
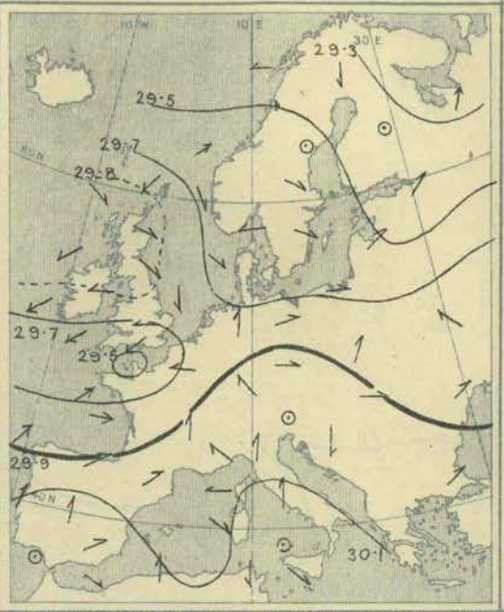
Tuesday, 25th October.

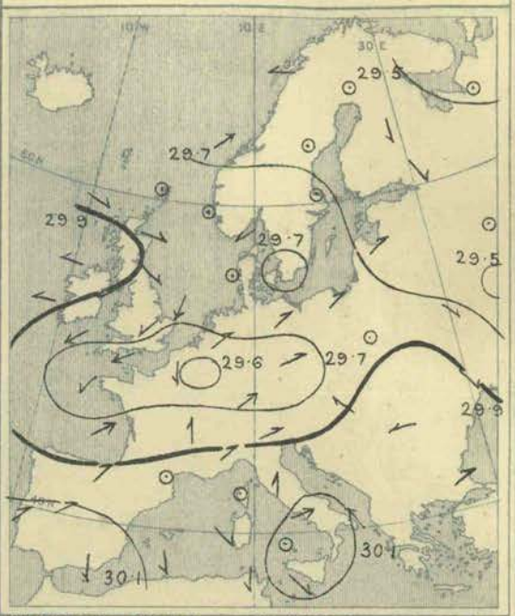
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over Ireland, Scotland, and on the eastern shores of the North Sea, unsettled generally elsewhere, and in most cases overcast. Rain falling over the northern half of France, southern and eastern parts of England, as well as in several parts of Hungary; snow at Cracow. Rain occurring during day in the south-west and south of England, and in Austria, and very heavy falls in some parts of France and Germany (2·1 ins. at Paris, 3·2 ins. at Carlsruhe.) Sky clearing later in London.

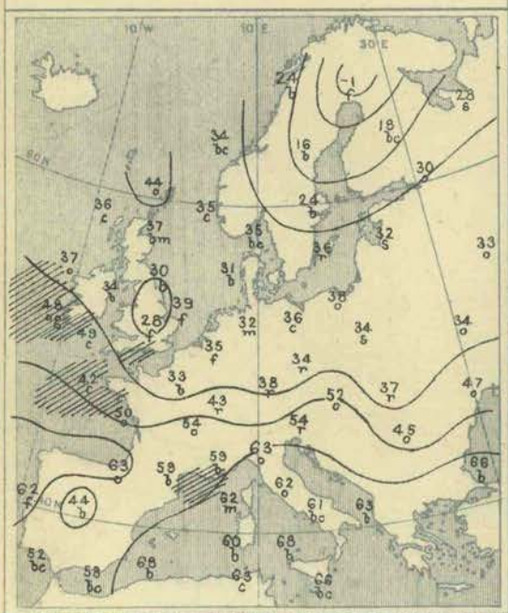
Temperature still low generally for the time of year. Morning readings exceeding 60° on the southern side of the Mediterranean and also in the south-west of France, but below 40° over nearly all the north-western and northern countries. Lowest of all, (1) 21° at Haparanda, 22° at Hernösand, 26° at Bodö, 27° at Kuopio, 28° at Stockholm; (2) 27° at Parsonstown, 29° at Leith, 30° at Nairn and Loughborough; (3) 35° at Breslau and Prague. Not touching 50° in any part of our Islands later, and failing to reach 40° at Aberdeen, but rising to 64° at Rochefort, 70° at Nice, 72° at Biarritz, to between 75° and 79° over the south of Italy and some parts of Algeria.

Wind very variable; mainly North-Westerly or Westerly over the Baltic, Germany, and the eastern shores of the North Sea, North-Westerly on our north-east coasts. Easterly in the west and south, but blowing strongly from the Westward over the Bay of Biscay, and moderately from the Southward over the Peninsula. Little change in our Islands later but Westerly and South-Westerly winds spreading Eastwards over the south of France and north of Italy to south Germany; Southerly airs setting in over Austria.

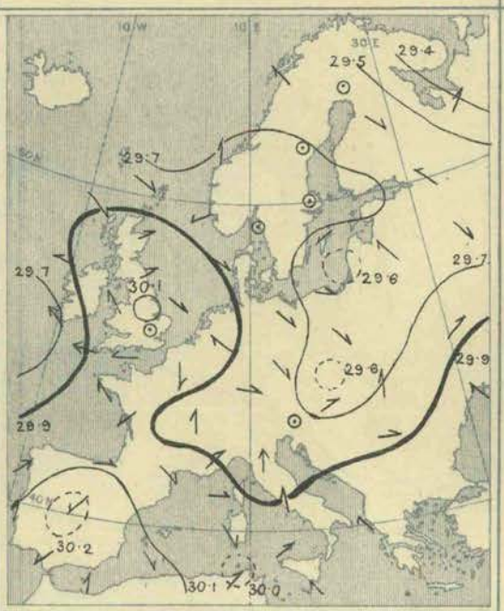
Barometer highest, 30·1 ins. and more to 29·9 ins. over south-western, southern, and south-eastern Europe. Exceeding 29·8 ins. over all the northern parts of the United Kingdom. Lowest, 29·3 ins. and less over the White Sea and north of Russia, 29·5 ins. and less in a small well-marked depression lying near Jersey, and 29·6 ins. in a still smaller system over the Kattegat. The depression near Jersey moving eastwards later, and barometer rising over Ireland and England; another shallow system forming over Brittany.

Wednesday, 26th October.

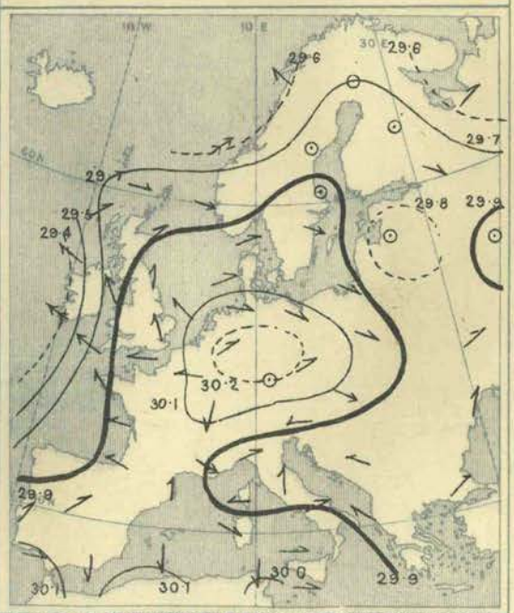
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over nearly the whole of our Islands and the North Sea, as well as in the south and east of Spain, and on the southern and eastern shores of the Mediterranean; dull and unsettled over central and eastern Europe, with cold rain and wet snow in many places; becoming densely overcast and threatening in the extreme west of Ireland. Rain later in nearly all parts of the Kingdom, in Norway, and the west of France (falls 1·5 ins. and more in the south of Ireland), some fell in Austria and south Russia also.

Temperature fallen again over Great Britain. Morning readings 68° at Algiers and Palermo, and exceeding 50° over southern Europe generally. Below 40°, however, at most stations in the more northern countries, and as low as (1) − 1° Fahr. at Haparanda, + 16° at Hernösand, 18° at Kuopio, 24° at Stockholm, 32° at Riga; (2) 23° at Loughborough, 27° at York and Oxford, 28° at Leith. Cambridge, and in London, 33° at Paris, 34° at Prague, 36° at Berlin. Rising rapidly over England later to between 50° and 55°, not touching 50° in the north of France, but exceeding 70° over southern Europe generally, and exceeding 80° over Algeria.

Wind extremely variable (cyclonic but light) over northern and central Europe; light and anti-cyclonic over Great Britain. Fresh (cyclonic) South-Easterly wind over Ireland and the mouth of the Channel, South-Westerly in Portugal. Cyclonic circulation of fresh breezes (North-Westerly and Southerly) over the north-eastern part of the Mediterranean also. The South-Easterly wind on our western coast increasing to a stiff gale later, and spreading as a light breeze over all the midland and eastern parts of England.

Barometer highest, (1) 30·2 ins. and more to 30·1 ins. over Spain and Algeria, (2) 30·1 ins. and more to 30·0 ins. over England, Belgium, and the north-east of France; (3) 30·0 ins. and more to 29·8 ins. over the Black Sea, Turkey in Europe, and the south of Russia. Lowest, (1) 29·4 ins. and less over the White Sea; (2) 29·6 ins. and less near Memel, and also over central Austria; (3) 29·7 ins. and less in a large low-pressure system advancing over the south-west of Ireland from the Atlantic. Latter system spreading greatly later, and steep gradients for South-Easterly winds appearing over our western districts, while the anticyclone moved south-eastward to central Europe.

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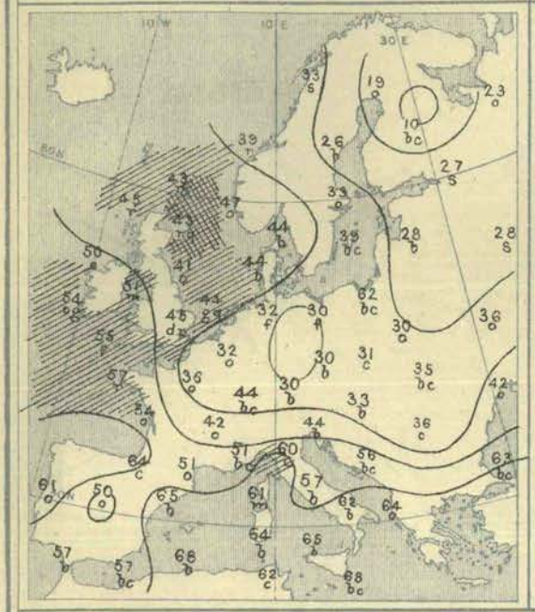
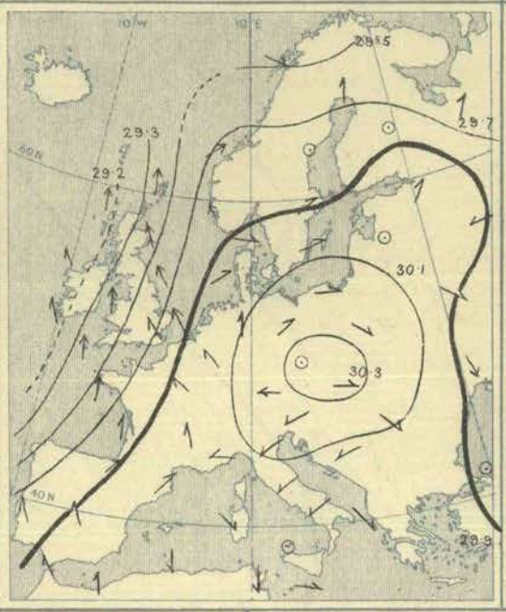
III.—SUMMARY OF WEATHER OVER EUROPE.

Thursday, 27th October.

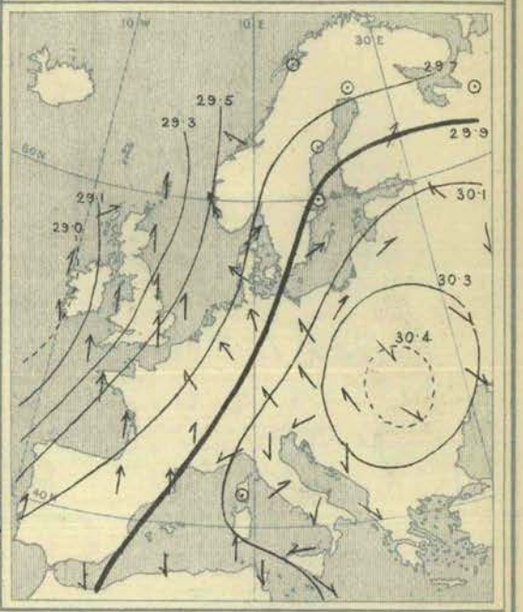
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the Mediterranean and central Europe, dull and unsettled elsewhere; very rainy and gloomy over the British Islands and Brittany, foggy in North Germany; snow falling over central Russia, rain over southern Russia. Rainfall considerable over our Islands and Scandinavia during day, heavy over Brittany, but weather remaining fine in the central and southern parts of the Continent.

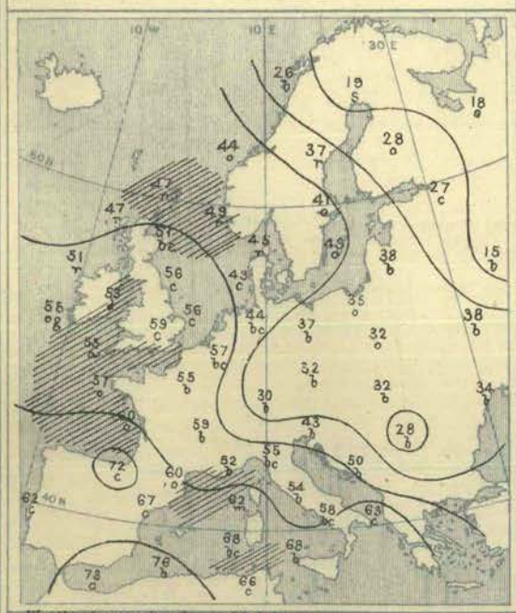
Temperature risen rapidly over the United Kingdom and Scandinavia, and rise spreading eastwards and southwards. Morning readings still exceeding 60° at many stations over the Mediterranean and the coast of the Peninsula, and exceeding 50° in the south-west and west of our Islands; still low elsewhere. Lowest, (1) 10° Fahr. at Knopio, 16° at Uleaborg, 23° at Archangel, 28° at Moscow and Riga, 30° at Warsaw, Prague, and Munich, 31° at Cracow, 32° at Breslau and Vienna, 36° at Paris. Rising to between 50° and 59° over our Islands later, to 66° at Nice, 75° to 77° in the south-west of France and over Italy, and to 80° and more in Algeria. Night very warm over British Islands.

Wind South-Easterly to Southerly over the whole of western and north-western Europe, moderate over the Bay of Biscay, strong to a gale on the coasts of the British Isles; South-Westerly in the north of Scandinavia, Westerly in the south of Sweden, North-Westerly to Westerly over Poland and Hungary, North-Westerly to Northerly in the south of Russia. Very variable over the Mediterranean. Decreasing in force over the British Isles later, but blowing a gale from South at Skudesnaes, and a fresh breeze over the Bay of Biscay.

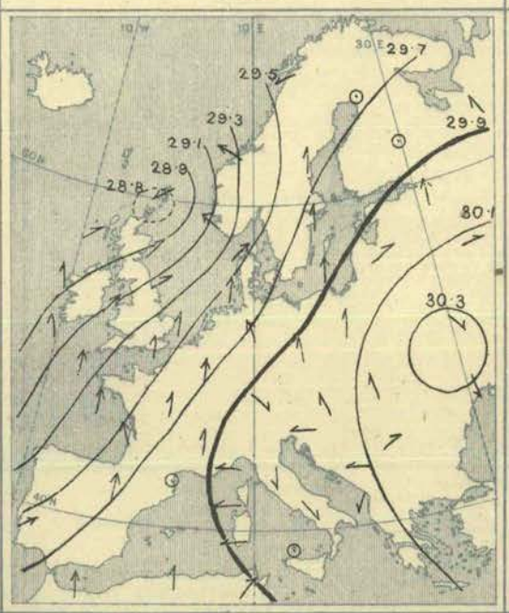
Barometer highest, 30·3 ins. and more to 30·0 ins. in an anticyclone lying immediately over central Europe, and exceeding 30·0 ins. over the Mediterranean, Algeria, and the south-east of Spain. Lowest, 29·2 ins. and less on the Atlantic coasts of Ireland and Scotland, and 29·6 ins. and less both in Lapland and in a depression over the south of Russia. Falling over the British Islands and north-western Europe all day, but gradients decreasing.

Friday, 28th October.

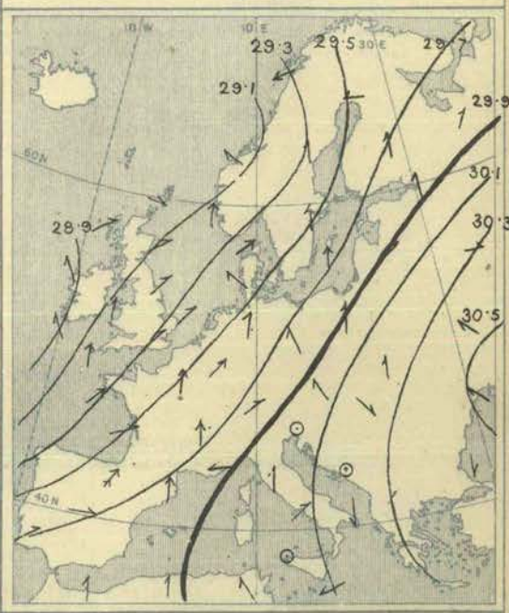
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over eastern and southern Europe, with Algeria; cloudy and very unsettled elsewhere, especially over the British Isles, the North Sea, and the shores of the Bay of Biscay, rain falling in many places, especially in Denmark and Sweden, snow at the northern extremity of the Gulf of Bothnia. Rain falling later throughout our Islands, Denmark, the Baltic, and the north of France—amounts considerable at some southern stations and also at the Scaw.

Temperature showing further increase throughout western Europe. Morning readings exceeding 70° over Algeria and at Biarritz, and exceeding 60° on the southern shores of the Mediterranean, and on the coasts of the Peninsula; exceeding 50° in almost all parts of the British Islands and France, but much lower over northern and eastern Europe. Lowest of all, 15° at Moscow, 18° at Archangel, 19° at Haparanda, 26° at Bodö, 27° at St. Petersburg, and 28° at Kharkov. Rising later to between 55° and 61° over the British Isles, to 71° at Paris, and to 75° in the south-west of France, and rather higher on the southern side of the Mediterranean. Succeeding night warm generally.

Wind still Southerly on the Irish, British, and French coasts generally, as well as in Holland and Denmark, but South-Easterly to Easterly in Norway and North-Easterly in the Shetlands. Considerably less strong in force at the western stations than on the 27th, but blowing strongly over the North Sea. Light anticyclonic airs reported over south-eastern Europe. Very little change reported later.

Barometer highest, 30·5 ins. and more to 30·0 ins. over eastern, south-eastern, and a great deal of southern Europe. Lowest, 28·9 ins. and less in a depression over the north-east of Scotland, and apparently off the north-west of Ireland also; gradients rather steep. No very decided change over our Islands and western Europe later, beyond the movement in a North-Easterly direction of the small depression over Scotland.

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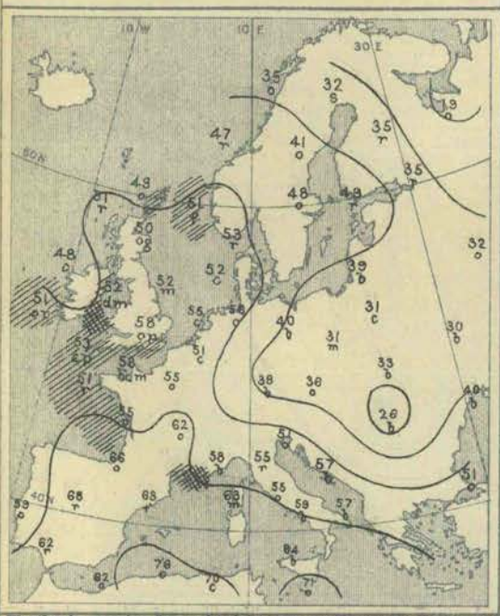
III.—SUMMARY OF WEATHER OVER EUROPE.

Saturday, 29th October.

Temperature and Weather.

8 a.m.

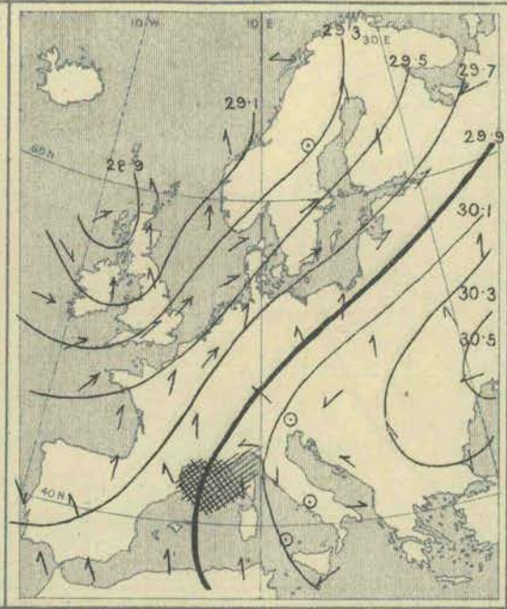


Weather in morning fine and bright over south-eastern Europe, including the southern parts of Italy, cloudy or overcast elsewhere, and very changeable and unsettled over the north-western and northern countries; rain in many places, fog in the south of Norway. Rain during some part of day at nearly all stations in the British Islands and north-western Europe, amounts large over central France.

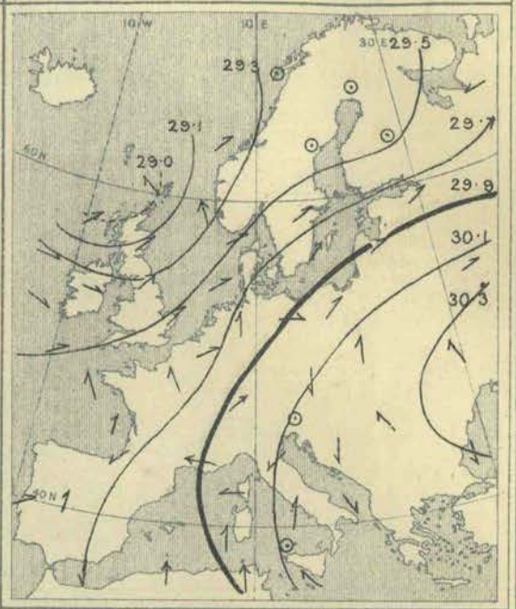
Temperature beginning to fall in Ireland, but rising over central and eastern Europe. Morning readings ranging from 70° to 76° at some stations on the southern side of the Mediterranean, and from 50° to 60° over the greater part of western Europe, to less than 20° in the north of Russia. Lowest, (1) 19° at Archangel, 32° at Moscow, 33° at Uleaborg; (2) 25° at Kharkov, 28° at Odessa, 30° at Kieff, 31° at Warsaw. Rising to 60° and more in many parts of England later, to 76° and more in some parts of southern France and in Italy, and to between 75° and 86° over Algeria.

Barometer and Wind.

8 a.m.



6 p.m.



Wind South-Westerly to Southerly over nearly the whole of Europe, including Great Britain—light to fresh in force, but said to be blowing a gale at the Needles; Westerly to North-Westerly in Ireland—fresh to strong in force. The Westerly wind spreading Eastwards over the United Kingdom later, but not reaching our eastern coast before night; the South-Westerly wind increasing in force over the Gulf of Finland.

Barometer highest, 30·6 ins. and more to 30·0 ins. in a large anticyclone covering the south-eastern countries of Europe. Lowest, 28·9 ins. and less in a complex depression covering the north-western parts of the British Islands, with a "V" shaped secondary spreading Southwards to Cornwall. Gradients rather steep over Ireland, England, Denmark, and the south of Sweden. Depression moving north-eastwards during day, and barometer rising over Ireland and Scotland.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

In the course of this week there has been a complete giving way of the high-pressure system which had previously prevailed over the British Islands and western Europe, and while the highest readings have been reported from the south-eastern countries the lowest have been found in the west. The gradients have become somewhat steep, the winds mainly Southerly to South-Westerly in direction and strong in force, and the weather much milder than of late. On Saturday the barometer at 8 a.m. was rather below 28·9 ins. over the Hebrides, while it was as high as 30·5 ins. in the south of Russia.

BRIGHT SUNSHINE Values for the Week in addition to those found on page 254.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	26·4	?	10	?	EASTBOURNE	26·6	?	39	?
OSWALDKIRK (Yorkshire)	15·4	?	23	?	TENBY	24·2	?	35	?
WORKSOP	21·1	+ 4·6	31	+ 6	NEWQUAY				
THURCASTON (Leicestershire)	22·0	+ 5·0	32	+ 7	TORQUAY	18·6*	?	27*	?
MARGATE	23·9	?	35	?	ARLEY COTTAGE (County Cavan)	26·2	?	39	?
WESTBOURNE (Sussex)	22·1*	?	32*	?	GUERNSEY	18·9*	?	24*	?
BRIGHTON	22·5	?	33	?					

The values at Westbourne, Tenby, Torquay and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

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VOL. IX. No. 44.] *Third Series.* WEEK ENDING SATURDAY, 5TH NOVEMBER, 1892. [*Price 6d.* [*Annual subscription, post paid*, £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years' observations (1871–90). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the ten years 1881-90. RAINFALL.—*The Mean amounts* are those for the corresponding periods in the twenty-five years 1866–90, but the *Mean numbers of Rainy Days* are those for the ten years 1881-90, only. BRIGHT SUNSHINE.—*The Mean values* employed are those for the corresponding periods in the ten years 1881–90.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 260.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1892. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	56	31	48·9	39·1	44·0	1 above.	26	+ 2	8	− 2	1650	−143	836	+257
	1. SCOTLAND, EAST	58	27	49·4	35·9	42·7	0 (average)	31	+ 4	17	+ 3	1935	−337	902	+293
	2. ENGLAND, N.E.	55	24	50·2	36·7	43·4	1 below.	32	+ 2	15	+ 6	2208	−225	745	+227
	3. ENGLAND, EAST	57	27	52·2	40·1	46·2	1 above.	37	+ 2	5	− 6	2624	−193	807	+216
	4. MIDLAND COUNTIES	57	24	51·9	34·7	43·3	1 below.	40	+ 7	20	+ 7	2580	−173	883	+291
	5. ENGLAND, SOUTH	59	29	53·7	42·0	47·8	1 above.	41	− 1	0	− 8	2889	−164	582*	+146
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	56	25	50·3	39·6	45·0	1 above.	31	0	7	− 2	2098	−246	676	+238
	7. ENGLAND, N.W.	57	25	51·3	38·6	45·0	0 (average)	35	+ 1	10	+ 4	2376	−171	612	+186
	8. ENGLAND, S.W.	57	24	53·1	40·9	47·1	0 (average)	40	− 4	3	0	2698	−148	460	+135
	9. IRELAND, NORTH	56	26	51·7	33·3	45·5	1 above.	36	+ 2	8	+ 1	2305	−191	528	+150
	10. IRELAND, SOUTH	59	25	53·8	39·8	46·8	0 (average)	43	0	6	0	2689	−133	451	+162
	— CHANNEL ISLANDS	59	38	55·5	47·5	51·5	1 above.	67	+ 5	0	0	3226	− 4	164	+ 42

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 260.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1892. Number of Rainy Days.	Difference from Mean.	Total Fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1892. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of In.	10ths of In.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	10	2 less.	217	+14	41·6	+ 1·7	8	− 4	13	− 7	1072	− 26	27	0
	1. SCOTLAND, EAST	4	4	3 less.	173	+ 6	25·1	− 1·5	20	+11	33	+13	1266	− 1	32	0
	2. ENGLAND, N.E.	3	4	3 less.	169	+14	23·5	+ 1·4	26	+13	41	+19	1233	+ 68	31	+ 2
	3. ENGLAND, EAST	6	15	9 more.	159	+ 8	24·8	+ 2·5	19	+ 2	30	+ 1	1456	+ 37	37	+ 1
	4. MIDLAND COUNTIES	4	8	1 more.	151	+ 1	21·2	− 3·0	22	+ 6	34	+ 8	1385	+115	35	+ 3
	5. ENGLAND, SOUTH	5	15	8 more.	136	− 9	20·9	− 2·3	12	− 3	18	− 7	1590	+210	40	+ 5
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	11	2 less.	172	− 3	39·5	− 1·6	24	+11	38	+16	1366	+111	34	+ 2
	7. ENGLAND, N.W.	3	6	2 less.	174	+12	32·5	+ 3·3	27	+14	43	+22	1356	+114	34	+ 3
	8. ENGLAND, S.W.	5	12	1 more.	160	− 7	26·2	− 7·6	26	+ 9	40	+11	1603	+118	41	+ 3
	9. IRELAND, NORTH	5	9	0 (average).	191	+ 1	32·1	+ 1·3	37	+21	58	+33	1241	+ 92	31	+ 2
	10. IRELAND, SOUTH	5	10	1 more.	164	− 9	32·2	− 0·3	41	+23	63	+36	1366	+ 28	34	0
	— CHANNEL ISLANDS	5	13	4 more.	160	−17	25·2	− 2·1	15	− 8	22	−11	1874	+125	48	+ 4

Bright Sunshine.—For several of the stations there are no "mean" values available, and the "difference from the mean" in some of the districts is consequently that of only a few of the stations.

General Remarks.

Weather varied considerably in different parts of the Kingdom. Over Ireland there were several very fine bright days, although during the latter part of the time there was frequent rain. Over the greater part of Scotland the conditions were generally cloudy or dull, with slight rain almost daily, while over England the weather was very rainy at first, then fine and dry, with local fogs, and finally rainy again.

Temperature differed very little from the mean in any district. The highest of the maxima were recorded either on November 3rd or 4th, and ranged from 59° in England S., Ireland S., and the Channel Islands, to 55° in England N.E. The lowest of the minima were registered either on the 1st or 2nd, when they ranged from 24° in England N.E., the Midland Counties, and England S.W., to 31° in Scotland N. and to 38° in the Channel Islands.

Rainfall greatly exceeded the mean in England E. and S., and slightly in the Midland Counties, England S.W., the Channel Islands, and over the south of Ireland. In Scotland and the northern parts of England the fall was less than the normal, and in the north of Ireland just equal to it.

Bright Sunshine was less than the mean in Scotland N., England S., and the Channel Islands, but exceeded it in all other parts of the Kindom; in Ireland the excess was very large. The percentage of the possible duration which was actually registered ranged from 63 in Ireland S., and 58 in Ireland N., to 41 in England N.E., to between 38 and 43 over the west of Great Britain, and to only 22 in the Channel Islands, 18 in England S., and 13 in Scotland N.

Barometer and Wind.—Soon after the commencement of the week an anticyclone advanced over our Islands from the westward, producing light variable winds or calms very generally. As this system disappeared to the eastward depressions skirted our extreme western and northern coasts, and the wind over the United Kingdom became fresh or strong from the Southward, and in the extreme west and north the force of a gale was experienced at times. At the end of the period, gradients for Southerly winds were becoming less steep, and the winds were decreasing in strength.

* This value has been altered owing to the receipt of further information.

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II.—DATA from which the SUMMARY on page 259 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°				Inches	Inches.				
0. SCOTLAND, N.	Sumburgh Head ℌ	50	35	47·9	41·7	44·8	+ 1·8	21	1	7	0·57	−0·41	*	*	*	*
	Stornoway ℌ	52	32	48·9	38·0	43·5	+ 0·4	27	11	6	1·82	+0·72	9·7	−4·1	16	−7
	Wick ℌ	53	34	49·1	39·9	44·5	+ 1·5	26	6	3	0·33	−0·37	*	*	*	*
	Lairg ℌ	55	31	48·5	36·3	42·4	+ 0·4	27	16	6	0·28	−0·62	*	*	*	*
	Glencarron ℌ	56	31	49·3	38·2	43·8	+ 1·8	29	11	6	1·46	−0·30	*	*	*	*
	Fort Augustus ℌ	56	31	49·3	38·7	44·0	+ 1·1	28	9	6	0·69	−0·25	4·6	?	7	?
	Fort William ℌ	55	35	49·2	41·1	45·2	+ 1·3	26	3	6	2·14	+0·32	16·2	?	16	?
1. SCOTLAND, E.	Nairn ℌ	58	31	50·9	36·4	43·7	+ 1·0	35	16	4	0·08	−0·42	*	*	*	*
	Aberdeen ℌ	52	29	48·9	37·7	43·3	− 0·1	27	12	4	0·50	−0·22	24·8	+8·0	40	+13
	Braemar ℌ	49	28	44·6	35·7	40·2	+ 0·2	7	24	4	0·54	−0·36	14·2†	?†	23†	?†
	Ochtertyre ℌ	57	27	51·4	33·7	42·6	+ 0·2	39	23	5	1·22	+0·20	*	*	*	*
	Leith ℌ	56	31	50·9	37·6	44·3	− 0·4	35	12	2	0·05	−0·45	*	*	*	*
	Marchmont ℌ	55	28	49·6	34·0	41·8	− 0·5	21	33	3	0·19	−0·64	23·3	?	38	?
2. ENGLAND, N.E.	Alnwick Castle ℌ	53	26	48·1	34·0	41·1	− 3·0	17	33	5	0·30	−0·47	*	*	*	*
	Durham ℌ	54	24	50·4	34·2	42·3	− 1·2	35	22	3	0·26	−0·39	27·6	+11·8	44	+19
	Shields ℌ	55	29	51·3	36·6	44·0	− 0·6	37	15	2	0·19	−0·36	*	*	*	*
	Scarborough ℌ	54	32	49·7	39·3	44·5	− 0·3	29	8	4	0·49	−0·21	*	*	*	*
	York ℌ	55	25	51·6	34·4	43·0	− 1·8	39	21	2	0·60	+0·01	26·1	+12·1	41	+20
	Spurn Head ℌ	52	38	49·9	41·4	45·7	− 0·3	28	2	4	0·41	−0·13	*	*	*	*
3. ENGLAND, E.	Hillington ℌ	55	33‡	52·0	39·2	45·6	+ 0·9	37	8	6	1·67	+1·05	19·2	+3·1	30	+ 4
	Yarmouth ℌ	54	43	50·7	45·0	47·9	+ 2·1	41	0	6	1·40	+0·69	*	*	*	*
	Geldeston ℌ	57	39	53·3	43·5	48·4	+ 2·8	45	0	6	1·49	+0·89	18·2	−1·3	28	− 2
	Cambridge ℌ	57	31	53·1	36·0	44·6	+ 0·1	43	17	5	1·52	+1·02	20·7	+2·0	32	+ 2
	Rothamsted ℌ	56	27	51·8	36·9	44·4	+ 0·4	38	14	7	1·30	+0·66	18·4	?	28	?
4. MIDLAND COUNTIES	Bawtry (Hesley Hall) ℌ	56	24	52·0	34·0	43·0	− 1·0	41	22	4	0·41	−0·13	*	*	*	*
	Loughborough ℌ	57	24	52·3	32·0	42·2	− 2·1	43	28	3	0·52	−0·05	*	*	*	*
	Stamford (Ketton Hall) ℌ	57	28	53·6	35·1	44·4	+ 0·1	46	19	3	0·66	+0·04	*	*	*	*
	Cheadle ℌ	53	31	50·4	37·3	43·9	+ 0·9	33	13	4	0·62	−0·19	*	*	*	*
	Churchstoke ℌ	56	27	51·0	34·4	42·7	− 1·1	37	21	4	0·70	−0·11	24·2	+ 9·0	37	+13
	Hereford ℌ	56	25	51·4	34·2	42·8	− 2·2	38	22	4	0·65	+0·05	*	*	*	*
	Cirencester ℌ	55	26	51·3	35·0	43·2	− 0·6	38	20	5	1·38	+0·70	20·3	+ 3·3	31	+ 5
	Oxford ℌ	57	27	53·0	35·3	44·2	− 0·8	44	19	3	1·20	+0·68	19·8	+ 1·8	30	+ 3
5. ENGLAND, S.	London ℌ	59	32	53·7	41·7	47·7	+ 1·8	41	1	6	1·80	+1·28	8·0†	− 4·7†	12†	− 7†
	North Foreland ℌ	56	38	53·6	45·3	49·5	+ 3·0	53	0	6	1·16	?	*	*	*	*
	Strathfield Turgiss ℌ	57	29	52·8	37·0	44·9	− 0·1	41	14	6	1·72	+1·14	*	*	*	*
	Dungeness ℌ	57	34	54·7	45·7	50·2	+ 2·7	57	0	4	1·16	+0·35	*	*	*	*
	Hastings (St. Leonards) ℌ	56	38	54·1	42·1	48·1	+ 0·6	43	0	6	1·76	+0·95	9·3	−11·7	14	−18
	Southampton ℌ	57	31	54·8	42·1	48·5	+ 1·8	46	0	5	1·80	+1·11	20·4	+ 1·4	31	+ 3
	Hurst Castle ℌ	57	35	53·9	43·9	48·9	+ 1·1	48	0	4	1·48	+0·76	*	*	*	*
	Stowell ℌ	56	29	51·8	37·8	44·8	− 0·2	37	12	5	1·27	?	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ℌ	55	34	50·0	41·3	45·7	+ 1·7	29	2	6	1·80	−0·15	*	*	*	*
	Glasgow ℌ	55	31	48·5	39·8	44·2	+ 0·7	25	6	3	0·47	−0·41	16·2	+ 6·8	26	+11
	Ardrossan ℌ	53	35	50·3	42·0	46·2	+ 0·7	29	0	5	0·66	−0·24	*	*	*	*
	Glenlee ℌ	55	25	50·6	34·7	42·7	− 0·1	36	10	4	2·04	+0·59	*	*	*	*
	Douglas (Isle of Man) ℌ	56	30	51·9	40·2	46·1	+ 0·4	36	5	5	0·41	−0·69	31·2	+13·5	49	+22
7. ENGLAND, N.W.	Newton Reigny ℌ	53	27	50·5	34·5	42·5	− 0·2	35	21	4	0·45	−0·38	26·3	+13·9	42	+22
	Stonyhurst ℌ	55	29	49·1	37·3	43·2	− 1·3	28	13	4	0·95	−0·13	28·3	+15·2	44	+23
	Blackpool ℌ	55	31	52·2	38·5	45·4	+ 0·2	39	10	3	0·62	−0·23	21·7	+ 8·0	34	+12
	Manchester ℌ	56	25	50·3	37·3	43·8	− 0·5	32	13	3	0·86	−0·06	*	*	*	*
	Liverpool Obsy. (Bidston) ℌ	56	30	52·1	38·9	45·5	− 0·3	38	9	3	0·42	−0·32	*	*	*	*
	Llandudno ℌ	57	35	52·2	40·5	46·4	− 0·8	37	4	3	0·85	+ 0·05	32·3	+19·2	50	+30
	Holyhead ℌ	56	38	52·7	43·1	47·9	− 0·1	41	0	4	0·34	−0·64	*	*	*	*
8. ENGLAND, S.W.	Llandovery ℌ	56	24	52·6	34·3	43·5	− 1·7	43	22	5	1·89	+0·64	*	*	*	*
	Pembroke ℌ	55	40	53·0	45·7	49·4	+ 0·6	52	0	5	0·71	−0·18	28·0	+10·7	43	+16
	Arlington (N. Devon) ℌ	56	31	51·7	38·4	45·1	− 0·9	37	10	4	1·14	−0·33	*	*	*	*
	Cullompton ℌ	57	28	52·7	36·4	44·6	− 1·6	42	16	5	1·06	+0·28	17·1	+ 1·5	26	+ 3
	Falmouth ℌ	57	42	54·1	45·7	49·9	+ 0·8	55	0	5	1·28	+0·01	31·7	+10·0	47	+16
	Plymouth ℌ	56	36	54·1	42·5	48·3	+ 0·1	44	0	5	1·34	+0·42	?	?	?	?
	Prawle Point ℌ	56	36	53·6	43·6	48·6	+ 0·2	46	0	3	0·80	+0·01	*	*	*	*
9. IRELAND, N.	Malin Head ℌ	54	37	50·3	42·0	46·2	+ 1·5	29	0	7	0·58	?	*	*	*	*
	Londonderry ℌ	56	31	51·9	39·7	45·8	+ 0·8	36	6	5	0·75	−0·23	*	*	*	*
	Edenfel (Omagh) ℌ	54	28	50·1	36·4	43·3	− 0·2	33	16	5	1·10	+0·29	*	*	*	*
	Mullaghmore ℌ	56	37	52·7	42·6	47·7	+ 0·7	40	0	5	1·17	+0·17	*	*	*	*
	Belmullet ℌ	54	38	51·6	43·1	47·4	− 0·7	38	0	6	1·30	?	*	*	*	*
	Markree Castle ℌ	55	29	52·4	37·2	44·8	+ 0·1	40	13	5	0·79	−0·11	34·0	+18·0	53	+29
	Brookeborough ℌ	55	26	52·2	37·2	44·7	+ 1·3	39	13	4	1·24	+0·27	*	*	*	*
	Armagh ℌ	55	28	51·9	39·0	45·5	+ 1·5	37	8	4	0·61	−0·04	40·0	+25·3	63	+40
	Donaghadee ℌ	55	28	51·6	38·0	44·8	− 0·9	36	11	4	0·65	−0·10	*	*	*	*
	Edgeworthstown ℌ	56	30	52·4	37·9	45·2	+ 1·2	40	11	5	0·75	0·00	*	*	*	*
10. IRELAND, S.	Dublin ℌ	57	31	52·2	41·3	46·8	+ 0·1	37	2	5	0·47	−0·16	46·5	+27·5	72	+42
	Parsonstown ℌ	58	28	53·6	36·6	45·1	+ 0·1	44	15	4	0·86	+0·18	39·8	+22·7	61	+34
	Kilkenny ℌ	58	25	54·3	35·3	44·8	− 1·2	48	19	5	1·02	+0·34	*	*	*	*
	Waterford ℌ	57	26	54·1	38·1	46·1	− 1·9	45	11	5	0·96	+0·11	*	*	*	*
	Roche's Point ℌ	55	38	53·6	43·7	48·7	+ 0·3	47	0	4	1·05	+0·07	*	*	*	*
	Valencia ℌ	57	33	54·7	42·0	48·4	− 0·7	45	0	6	0·63	−0·75	35·5	+16·8	55	+29
	Killarney ℌ	57	31	54·0	40·1	47·1	− 0·1	44	5	7	1·79	?	*	*	*	*
	Foynes ℌ	59	34	53·6	41·5	47·6	+ 1·9	41	1	6	1·18	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's) ℌ	58	41	54·9	46·7	50·8	− 0·2	62	0	5	0·84	−0·04	*	*	*	*
	Jersey ℌ	59	38	56·0	48·3	52·2	+ 1·4	71	0	5	1·84	+0·80	13·7	− 8·3	20	−11

Stations marked ℌ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

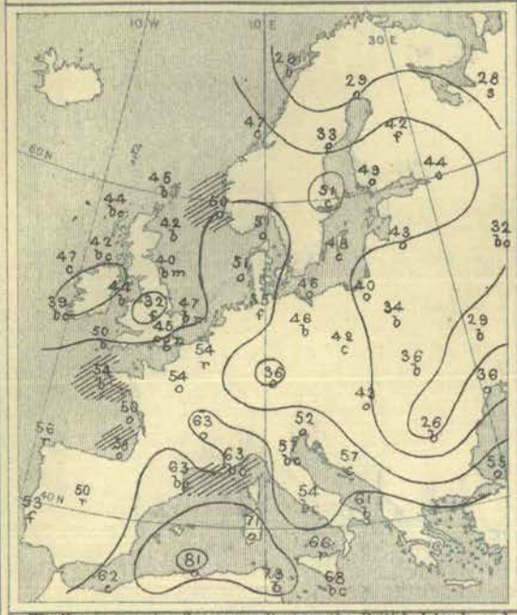
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory and the Meteorological Office, Victoria Street. For additional Reports of Sunshine see last page.

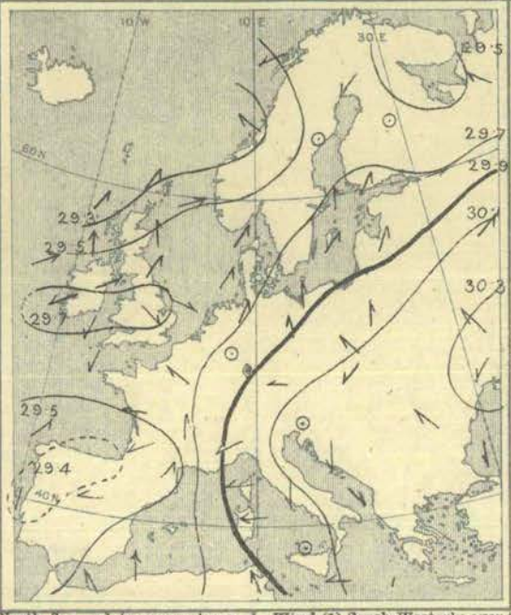
‡ The corresponding value in last week's report should be "38."

Sunday, 30th October.

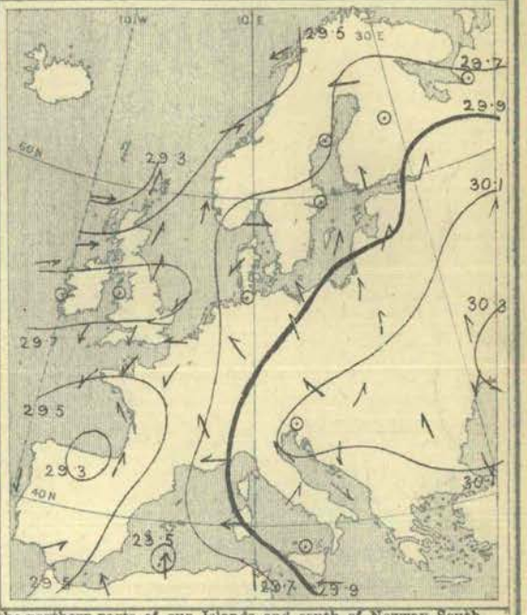
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine generally over the British Islands and North Sea, and in many places clear and bright, but foggy over the Netherlands and inland parts of England. Clear and bright over south-eastern Europe, unsettled over the south-western, central, and northern countries, with rain in several places, snow at Archangel. Some rain in the north-west and extreme north later, and a heavy fall over the south and east of England, as well as in many parts of France. Thunderstorms occurring in the west and south of France.

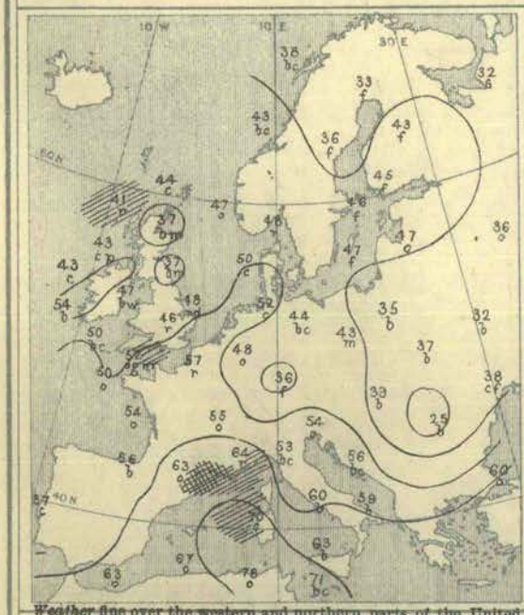
Temperature fallen with rapidity over our Islands, and low again there for the time of year. Morning readings below 50° over nearly the whole of Europe. Lowest, (1) 28° at Archangel and Bodö, 32° at Moscow, 33° at Hernösand; (2) 25° at Kharkov, 26° at Harmanstadt, 28° at Odessa, 29° at Kiev, 32° at Cracow; (3) 32° at Loughborough, 34° at Oxford, 36° at Cambridge. Rising later to between 50° and 56° over the greater part of our Islands, to nearly 70° in the south of France, and to 73° at Lyons. Exceeding 70° at many of the Italian stations, exceeding 80° in Spain and Algeria, and reaching 90° at San Fernando and La Calle.

Wind (1) South-Westerly over the northern parts of our Islands and south of Norway, South-Easterly to Easterly over the northern half of Norway, South-Westerly over the North Sea and Baltic; (2) North-Easterly to Easterly over the English Channel, France, and the Bay of Biscay, Northerly at Lisbon, Southerly over Algeria, South-Easterly over Tunis, moderate or light generally. Very light from South-East and East over the southern half of Russia. Shifting to South in the south-east of France later, but remaining Easterly in the Channel.

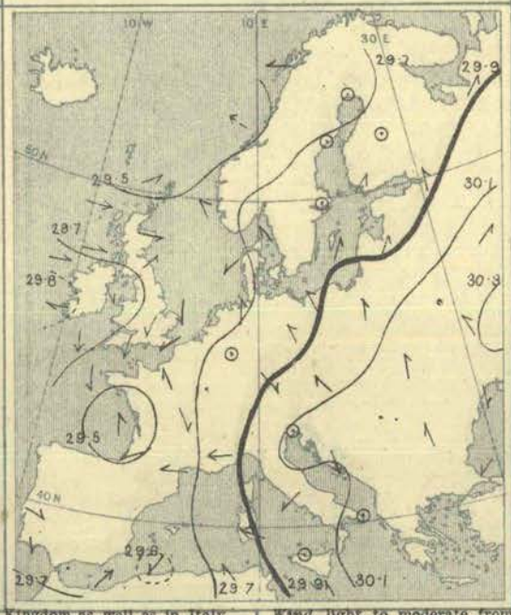
Barometer highest, 30·4 ins. and more to 30·6 ins. over south-eastern and central Europe, and exceeding 29·7 ins. over central England and the south of Ireland. Lowest, (1) 29·5 ins. and less over the White Sea and Kola Peninsula; (2) 29·3 ins. and less off the north-west of Scotland and west of Norway; (3) 29·4 ins. and less over Portugal and the north of Spain. Rising slightly at our western and northern stations later, falling over France and the south-east of England. Depression spreading northwards over the Bay of Biscay; a shallow secondary disturbance forming off the south-east of England at night.

Monday, 31st October.

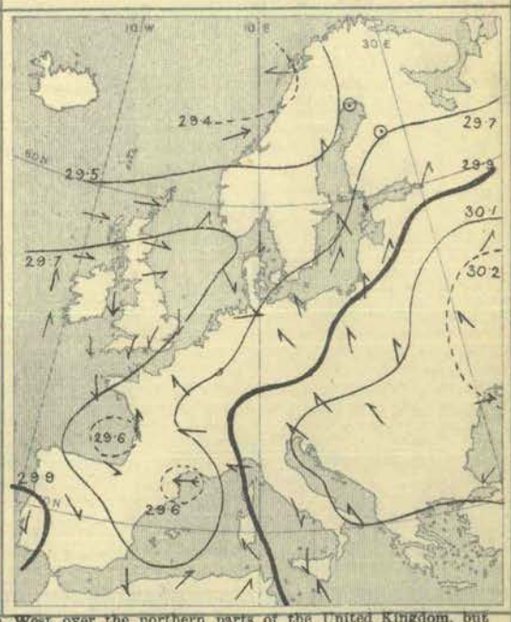
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather fine over the western and northern parts of the United Kingdom, as well as in Italy, Austria, and the south of Russia. Rainy in the south-east of England and the north of France; dull over Spain, the southern parts of France, western Germany, and the north of Russia, with rain at St. Petersburg and snow at Archangel; foggy in Sweden, as well as at some of the German and Austrian stations. No important change occurring over western Europe during day, but very heavy rain falling over northern Italy and the south of France, with thunderstorms at Nice and Toulon.

Temperature changed very irregularly. Morning readings highest, 78° at La Calle, 73° at Sanguinaire and Tunis, and 72° at Cagliari; above 60° at most of the Mediterranean stations, and above 55° in some parts of central France. Lowest, (1) 28° at Kharkov, 30° at Nicolaieff, and 32° at Kiev; (2) 31° at Parsonstown, and 34° at York; (3) 32° at Archangel, and 33° at Haparanda. Rising during day to a little above 50° over the central and southern parts of the United Kingdom; exceeding 55° in Germany, and slightly exceeding 65° at several of the French stations. Reaching 70° or more in some parts of Italy, the highest reading of all being 82° at Palermo.

Wind light to moderate from West over the northern parts of the United Kingdom, but South-Easterly or Easterly in the west of Norway, and calm in Sweden. Moderate from North-East or North in the south of England and the north-west of France, Easterly over the south of France and north of Italy; with a gale at Toulon. Light from South over the Netherlands, the north-east of France, north Germany, and the greater part of Russia; variable in Austria and the south of Italy, South-Easterly in Tunis. Light Southerly breezes setting in later in the west of Ireland; wind veering to the South-Westward in the west of Norway.

Barometer highest, 30·3 ins. and upwards in a large anticyclone over the south of Russia; 29·7 ins. to 29·8 ins. in another system over the west of our Islands. Lowest, 29·5 ins. and less in a large depression lying to the northward of the United Kingdom, and also in a smaller disturbance lying over the Bay of Biscay and the west of France; a small shallow secondary system reported between the Dutch and Norfolk coasts. The two last-mentioned depressions dispersing gradually in course of day, but new disturbance appearing off the south of France. High-pressure area over our western coasts spreading eastwards.

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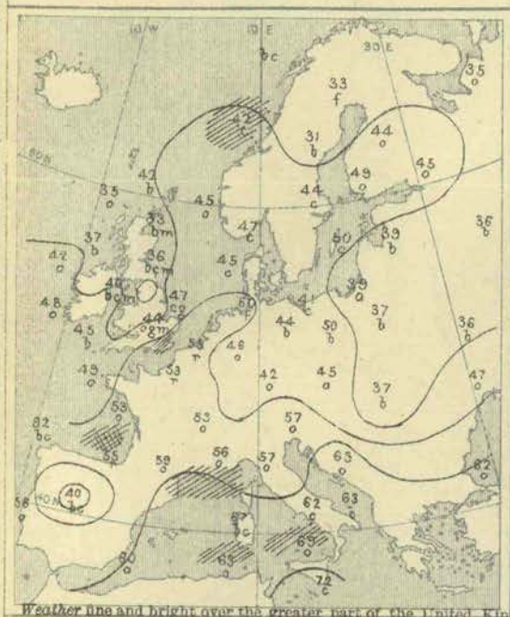
III.—SUMMARY OF WEATHER OVER EUROPE.

Tuesday, 1st November.

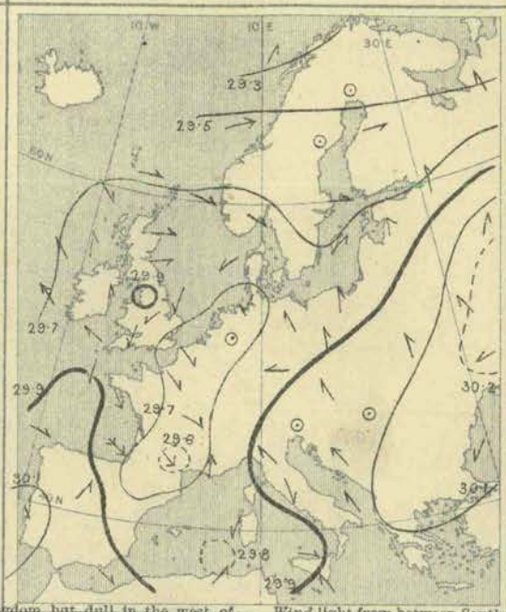
Temperature and Weather.

8 a.m.

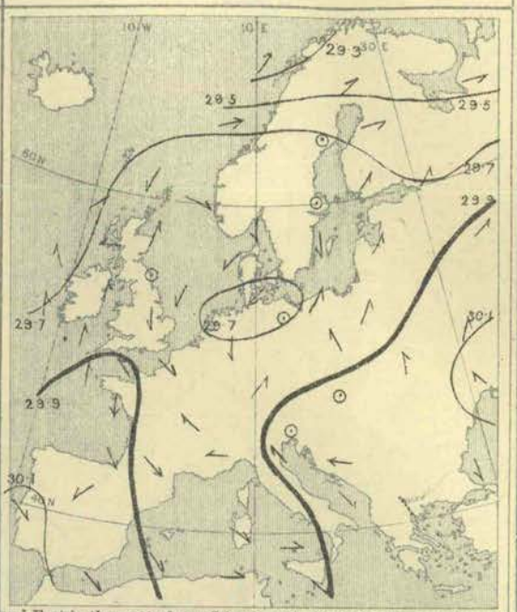


Barometer and Wind.

8 a.m.



6 p.m.



Weather fine and bright over the greater part of the United Kingdom, but dull in the west of Ireland and foggy at some of the central English stations. Fine also in many parts of Germany, Poland, and Austria, but cloudy or overcast over the Continent generally, with rain at Brussels and Paris, and a thunderstorm at Leghorn. Dull rainy weather setting in later over the west of our Islands; large quantities of rain falling in Italy, the south of France, and some parts of northern Germany, the heaviest amounts of all being 1·7 ins. at Nice, 1·4 ins. at Monaco, and 1·2 ins. at Cuxhaven.

Temperature fallen in most places, quickly over central England. Morning readings highest, 72° at Malta, 69° at Palermo, 68° at Sanguinaire, and 67° at Cagliari; above 60° at many of the Mediterranean and Adriatic stations, but below that point in the Riviera. Lowest, (1) 25° at Loughborough, 29° at York, and 30° at Donaghadee; (2) 27° at Kharkov; (3) 31° at Hernösand, and 33° at Haparanda. Rising during day to between 50° and 56° in the west and south of our Islands, to 60° and upwards over the western, central, and southern parts of France, and to 70° and upwards in the south of Italy, the highest reading being 83° at Palermo. Sharp frost occurring over central England at night.

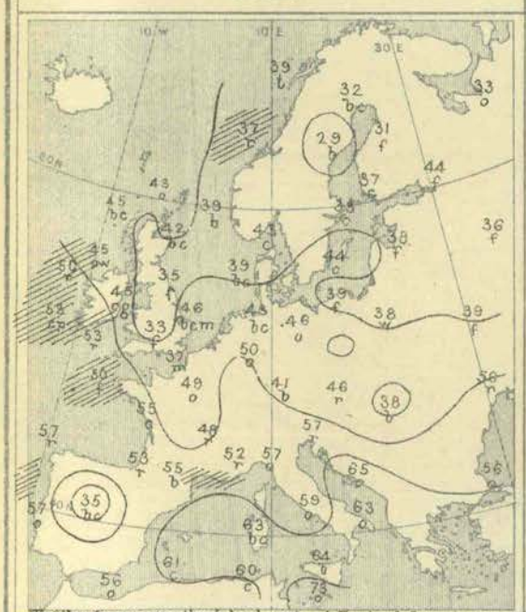
Wind light from between South and East in the west of our Islands and from the Westward in Scotland and the southern parts of Scandinavia. Moderate to fresh from the Northward in the east and south of England and the north of France; gales reported in the south of France, from the Westward at Biarritz, but from the Southward at Toulon. Light from South or South-East over Russia, central Europe, and the Adriatic; South-Westerly over Algeria and central Spain. Southerly or South-Easterly winds setting in later over the west and north of our Islands generally; gales in south of France gradually subsiding.

Barometer highest, 30·2 ins. and upwards in an anticyclone over the south of Russia; 30·1 ins. and upwards in another area lying off the south-west of Spain; band of relatively high readings extending northwards from latter system over the Bay of Biscay and the greater part of our Islands. Lowest, 29·3 ins. and less in the north of Scandinavia, 29·7 ins. and less in a narrow band stretching from north Germany to the south of France and the north of Spain. Shallow depressions appearing later off our extreme western coasts, and barometer falling slowly in the western parts of our Islands generally.

Wednesday, 2nd November.

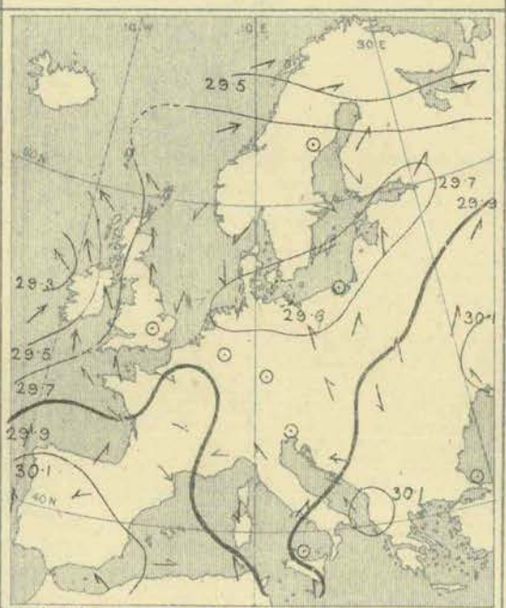
Temperature and Weather.

8 a.m.

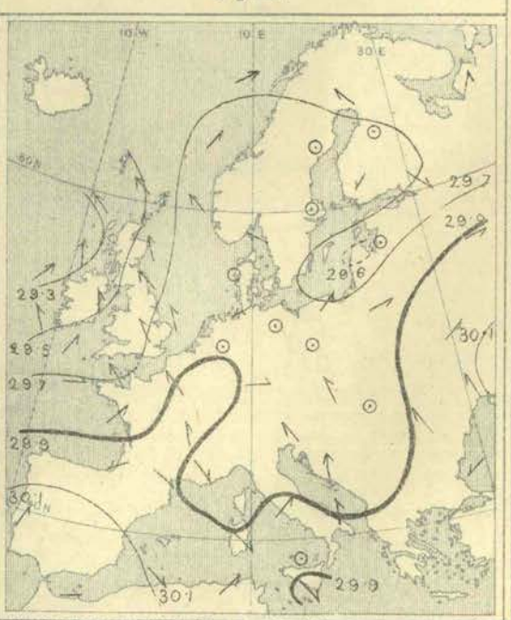


Barometer and Wind.

8 a.m.



6 p.m.



Weather foggy over the inland parts of England, fine at most of the Scotch stations; rainy in Ireland and the south-west of England. Fine over Denmark and the northern parts of Sweden and also over the southern parts of Spain and Italy, but cloudy over the Continent generally, with fog at many of the Baltic and Russian stations, and with rain over the southern parts of France and Austria. Rain falling later over nearly the whole of western Europe, but amounts nowhere very large. Heavy rain reported, however, in Portugal and northern Italy, the largest amount being 1·9 ins. at Oporto.

Temperature risen decidedly in the west and north of our Islands, but fallen over northern Europe, changed irregularly elsewhere. Morning readings highest, 73° at Malta, 65° at Lésina, and 64° at Naples and Palermo; above 60° at several of the Mediterranean stations, but below 55° at Riviera. Lowest, (1) 26° at Loughborough, 27° at Oxford, and 30° at York; (2) 29° at Hernösand, and 31° at Kuopio; (3) 35° at Madrid. Rapid rise taking place over England during day, thermometer rising to between 50° and 58° at most of our central and southern stations. Exceeding 60° in Spain and the west and south of France, and exceeding 70° in Italy, the highest reading of all being 79° at Palermo.

Wind moderate to strong from the Southward or South-Eastward in all the more western and northern parts of our Islands, but South-Westerly in the south of Ireland; calm or light and variable over the central and south-eastern parts of England. Strong from West or South-West in the west of Norway; light from the North-Eastward in Denmark. Light and variable over the greater part of central, southern, and eastern Europe, subsequently increasing to a gale from South in the north of Scotland; veering to South-West at many of our western stations, but backing to South-South-East at Valencia Island in evening.

Barometer highest, 30·1 ins. and upwards in an anticyclone lying over the Spanish Peninsula, and 30·0 ins. to 30·1 ins. and upwards in another system covering the whole of south-eastern Europe. Lowest, 29·3 ins. and less in a well-marked depression lying off the west of Ireland, 29·5 ins. and less in the north of Scandinavia, 29·7 ins. and less in an elongated area lying over north Germany and the Baltic Provinces. Depression in west subsequently moving northwards, but new disturbance beginning to approach Ireland in evening. No important change occurring on Continent.

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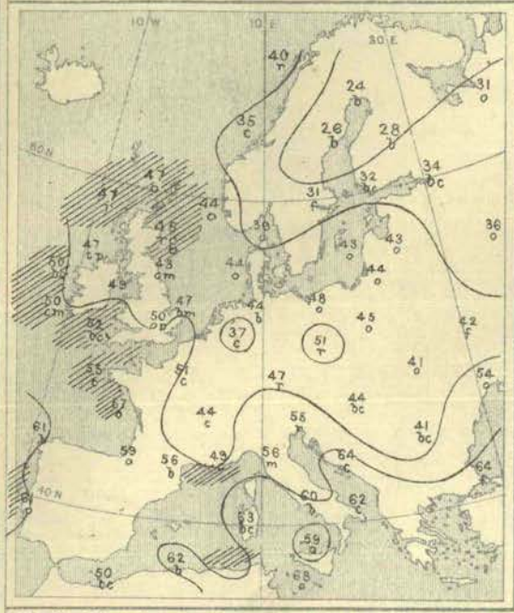
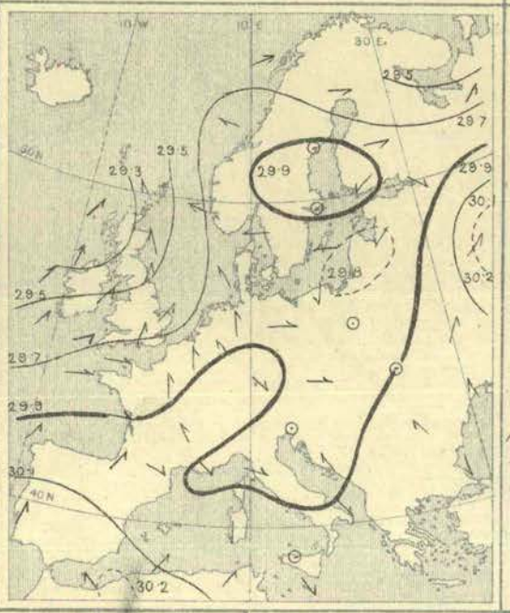
III.—SUMMARY OF WEATHER OVER EUROPE.

Thursday, 3rd November.

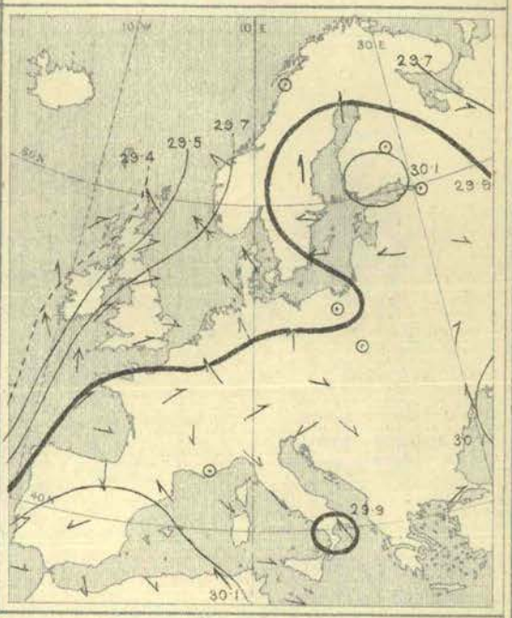
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather fair or fine over the greater part of Ireland, England, France, Spain, and Algeria, as well as over the northern parts of Sweden and Russia. Cloudy or overcast elsewhere, with rain in the north of Scotland, the Netherlands, and the eastern and southern parts of Germany, and at the head of the Adriatic. Rain falling later in the west and extreme north of our Islands, and also at some of the Italian and Algerian stations.

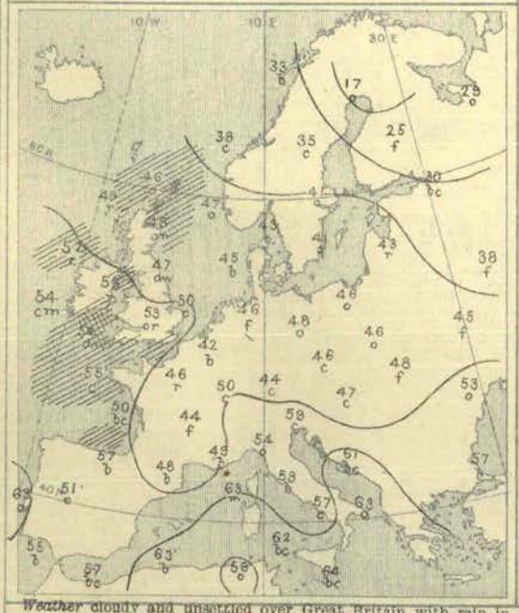
Temperature risen rapidly over England, and slightly in many other parts of Europe, but fallen over Sweden and northern Russia, as well as in Italy. Morning readings highest, 68° at Malta, 64° at Lésina and Constantinople, and 63° at Cagliari; reaching 60° or more at several of the Mediterranean and Spanish stations, and exceeding 55° in the west of France. Lowest, 24° at Haparanda, 26° at Hernösand, and 28° at Kuopio; below the freezing point in most parts of Sweden and northern Russia. Rising during day to between 55° and 57° at many of the English and Irish stations, and reaching 59° at Jersey. Exceeding 60° in France, and rising to 70° or more in several parts of Italy and Algeria.

Wind moderate to fresh from West or South-West over the west of France and the southern parts of the United Kingdom, and from South-West or South on our western and northern coasts. South-Easterly on the eastern shores of the North Sea. Light Westerly over northern Russia, Southerly in the south of that country. Variable over Italy and central Europe; light from the South-Eastward over Algeria and the greater part of Spain. Subsequently increasing from South on our western coasts, and blowing a gale at some of the Irish stations at night.

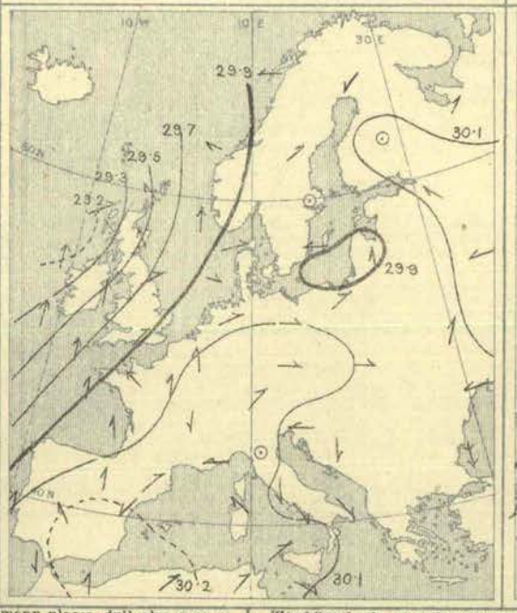
Barometer highest, 30·2 ins. and upwards in an anticyclone lying over central Russia; 30·1 ins. and upwards in another system lying over Algeria and the southern parts of Spain. Lowest, 29·2 ins. and less in a depression off the west of Scotland, 29·6 ins. and less in another disturbance in the neighbourhood of the White Sea. Depression off Scotch coasts subsequently travelling away to the northward, but new and deeper system approaching the west of Ireland in evening.

Friday, 4th November.

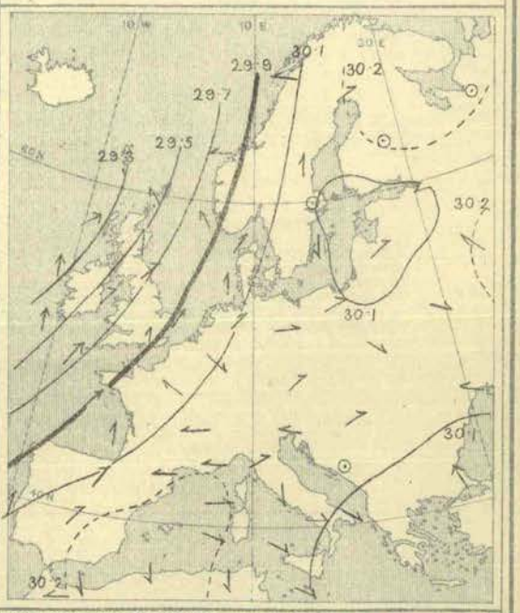
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather cloudy and unsettled over Great Britain, with rain in many places, dull also over a considerable portion of the Continent, foggy at several of the German and Russian stations; rainy at Riga and Paris. Fine in Ireland, the west and south of France, Algeria, and the extreme southern parts of Spain and Italy. Rain falling later in almost all parts of the United Kingdom, rather heavily at some of the northern stations; thunderstorm occurring at Mullaghmore in afternoon, and lightning seen at Malin Head at night. Snow reported at St. Petersburg in evening.

Temperature risen a few degrees over the United Kingdom and Scandinavia, changed irregularly elsewhere. Morning readings highest, 64° at Malta, 63° at Brindisi and Algiers, and 62° at Barcelona and Palermo; above 55° in the west of France, and touching that point at some of the English stations. Lowest, 17° at Haparanda, 25° at Kuopio, 28° at Ulcaborg, and 29° at Archangel. Rising during day to 55° and upwards in many parts of our Islands, reaching 59° in London, and 58° even as far north as Nairn; minima in following night above 50° at several of our southern stations. Daily maxima exceeding 65° in many parts of southern Europe; thermometer reaching 73° at Palermo.

Wind Southerly over the greater part of western Europe and strong in force on our western and southern coasts. Light from the Westward over Denmark, eastern Germany, and Austria, and from North-West in Italy, but Easterly at most of the Russian stations. Light Southerly in Algeria. A fresh gale from the Northward reported at Constantinople. No important change occurring during day.

Barometer highest, 30·2 ins. and upwards in an anticyclone covering Algeria and the south-eastern half of the Spanish Peninsula, and also in another system lying over central Russia. Lowest, 29·3 ins. and less in a large depression lying to the westward of our Islands. Gradients rather steep over our Islands and the Bay of Biscay. Shallow secondary disturbance with readings below 29·9 ins. lying over the Baltic Provinces. No important change occurring later.

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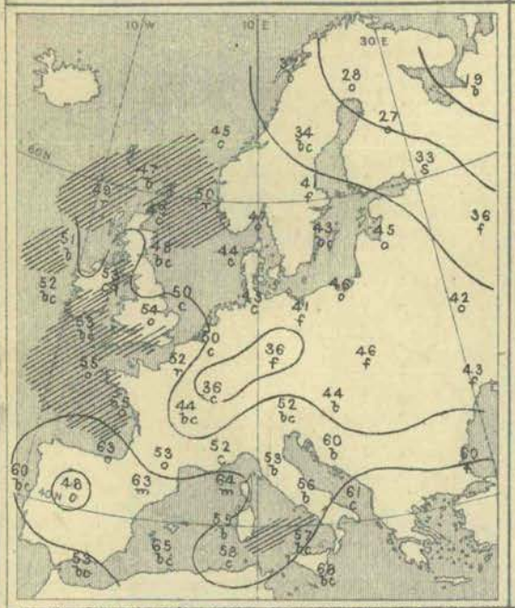
III.—SUMMARY OF WEATHER OVER EUROPE.

Saturday, 5th November.

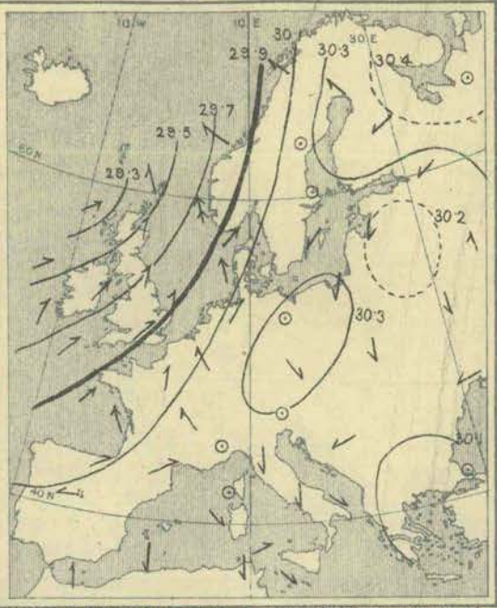
Temperature and Weather. 8 a.m.

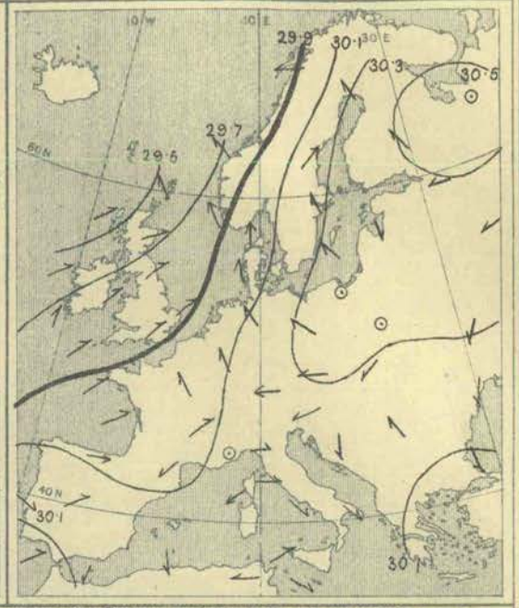


Weather fine and bright in many parts of our Islands, but dull in the south of England and rainy in the west of Scotland. Cloudy over the greater part of the Continent, with fog in many places, with rain over central France, and with snow at St. Petersburg, but fine in Italy, Algeria, and the south of Spain. Steady rain falling later over England and France, as well as at many of the Scandinavian stations; lightning seen at Biarritz in evening.

Temperature fallen in most places, but risen over Norway, the Netherlands, and the southern parts of France. Morning readings highest, 68° at Malta, 65° at Algiers, 64° at Sanguinaire, and 63° at Perpignan and Barcelona; above 55° over the Mediterranean and Adriatic generally, as well as in the west of France, and reaching that point at some of the English Channel stations. Lowest, 1° at Archangel, 27° at Knoplo, 28° at Haparanda, and 29° at Uleaborg. Rising during day to 55° or more in many parts of the United Kingdom, to between 60° and 70° over southern Europe generally, and to between 70° and 80° in Algeria and Tunis.

Barometer and Wind. 8 a.m. and 6 p.m.





Wind Southerly over the whole of western Europe; moderate in force in our Islands, but strong on the eastern shores of the North Sea, with a gale at Skudesnaes. Light from the North-Eastward or Northward over Finland and the Baltic, and from the North-Westward in Austria and Italy. Variable in Germany, Spain, Algeria, and the south of France. Subsequently veering to the South-Westward in many parts of our Islands and France; no important change occurring elsewhere.

Barometer highest, 30·3 ins. and upwards over eastern and southern Germany; high, 30·1 ins. and upwards over all the more central, southern, and eastern parts of Europe, with the Mediterranean and Algeria. Lowest, 29·3 ins. and less in a depression lying off the north-west of Scotland; gradients rather steep over our Islands and Scandinavia. Depression subsequently moving away in a northerly direction, but shallow secondary systems appearing over England.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze: and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During this period the highest barometrical readings were located, as a rule, over Russia, while the lowest were found in a series of depressions travelling northwards outside our western and north-western coasts. At the commencement of the period, however, the distribution of pressure over western Europe was very irregular, a temporary anticyclone having been formed over the central parts of the United Kingdom, in the rear of the depressions which skirted our coasts during the preceding week. A shallow cyclonic system now spread northwards from the Bay of Biscay and occasioned North-Easterly winds over our southern districts with very heavy rain in the south and east of England. On the 31st October and the 1st November the anticyclone and the depression both dispersed, and on the 2nd the conditions over western Europe began to be influenced by large cyclonic disturbances which approached our western coasts from the Atlantic. Southerly winds and mild unsettled weather now spread gradually over all the more western countries, with a gale in Ireland and the south-west of England on the 4th. Over the eastern, central, and southern parts of the Continent the winds were light and somewhat variable, with fine weather in many of the southern countries, but with a good deal of fog over Germany, Austria, and Russia.

BRIGHT SUNSHINE Values for the Week in addition to those found on page 260.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	19·0	?	31	?	EASTBOURNE	6·8	?	10	?
OSWALDKIRK (Yorkshire)	25·2	?	39	?	TENBY	28·0*	?	43*	?
WORKSOP	26·5	+11·5	41	+17	NEWQUAY	3·5	?	46	?
THURCASTON (Leicestershire)	20·0	+ 4·6	31	+ 8	TORQUAY	21·5*	?	32*	?
MARGATE	11·4	?	17	?	ARLEY COTTAGE (County Cavan)	38·0	?	59	?
WESTBOURNE (Sussex)	15·6*	?	24*	?	GUERNSEY	15·2*	?	23*	?
BRIGHTON	12·4	?	19	?					

The values at Westbourne, Tenby, Torquay and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

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VOL. IX. No. 45.] *Third Series.* WEEK ENDING SATURDAY, 12TH NOVEMBER, 1892. [*Price 6d.* [*Annual subscription, post paid, £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years' observations (1871–90). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the ten years 1881-90. RAINFALL.—*The Mean amounts* are those for the corresponding periods in the twenty-five years 1866–90, but the *Mean numbers of Rainy Days* are those for the ten years 1881-90, only. BRIGHT SUNSHINE.—*The Mean values* employed are those for the corresponding periods in the ten years 1881–90.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

DISTRICTS. (See p. 266.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1892. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts. **0.** SCOTLAND, NORTH -	57	34	51·2	42·0	46·6	5 above.	32	+11	0	−13	1632	−132	836	+243
1. SCOTLAND, EAST -	57	26	49·8	37·3	43·5	2 above.	30	+ 7	13	− 4	1965	−332	915	+290
2. ENGLAND, N.E. - -	52	34	49·0	39·1	44·1	1 above.	27	+ 1	8	− 2	2235	−225	753	+226
3. ENGLAND, EAST -	57	28	48·3	37·8	43·1	0 (average)	25	− 5	12	− 1	2649	−198	819	+216
4. MIDLAND COUNTIES	55	25	50·9	36·3	43·7	1 above.	36	+ 7	16	+ 1	2616	−167	899	+293
5. ENGLAND, SOUTH -	57	28	51·4	40·2	45·8	1 above.	34	− 4	5	− 3	2923	−169	587	+145
Principal Grazing, &c., Districts. **6.** SCOTLAND, WEST -	62	30	51·0	41·3	46·2	3 above.	32	+ 5	2	− 8	2130	−243	678	+230
7. ENGLAND, N.W. -	55	31	49·8	41·3	45·6	1 above.	28	− 2	2	− 6	2404	−173	614	+180
8. ENGLAND, S.W. -	57	27	52·8	40·7	46·8	1 above.	39	− 3	4	0	2737	−180	464	+136
9. IRELAND, NORTH -	55	29	50·7	40·1	45·5	2 above.	32	+ 2	5	− 5	2337	−192	533	+146
10. IRELAND, SOUTH -	58	31	52·8	40·6	46·7	1 above.	39	− 1	4	− 3	2728	−135	455	+159
— CHANNEL ISLANDS -	58	38	54·7	45·6	50·2	1 above.	57	− 1	0	0	3283	− 7	164	+ 42

Rainfall.

DISTRICTS. (See p. 266.)	For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1892. Number of Rainy Days.	Difference from Mean.	Total Fall.	Difference from Mean.
		10ths of In.	10ths of In.			Ins.	Ins.
Principal Wheat-producing Districts. **0.** SCOTLAND, NORTH -	5	11	2 less.	222	+14	42·7	+ 1·5
1. SCOTLAND, EAST -	4	3	4 less.	177	+ 6	25·4	− 2·0
2. ENGLAND, N.E. - -	4	4	3 less.	173	+15	23·9	+ 1·1
3. ENGLAND, EAST -	3	1	5 less.	162	+ 7	24·9	+ 2·4
4. MIDLAND COUNTIES -	2	1	6 less.	163	0	21·3	− 3·6
5. ENGLAND, SOUTH -	3	2	5 less.	139	−10	21·1	− 2·8
Principal Grazing, &c., Districts. **6.** SCOTLAND, WEST -	5	12	0 (average).	177	− 2	40·7	− 1·7
7. ENGLAND, N.W. - -	4	5	3 less.	178	+12	33·0	+ 3·0
8. ENGLAND, S.W. - -	3	3	8 less.	163	− 9	26·5	− 8·3
9. IRELAND, NORTH -	5	12	4 more.	196	+ 2	33·3	+ 1·7
10. IRELAND, SOUTH -	6	10	1 more.	170	− 8	33·2	− 0·1
— CHANNEL ISLANDS -	4	4	6 less.	164	−19	25·6	− 2·6

Bright Sunshine.

DISTRICTS. (See p. 266.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1892. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts. **0.** SCOTLAND, NORTH -	6	0	10	0	1078	− 33	26	− 1
1. SCOTLAND, EAST -	12	0	21	0	1278	− 4	31	− 1
2. ENGLAND, N.E. - -	5	− 7	9	−14	1238	+ 60	31	+ 2
3. ENGLAND, EAST -	5	−14	8	−22	1461	+ 23	36	0
4. MIDLAND COUNTIES -	16	+ 2	26	+ 2	1401	+119	35	+ 3
5. ENGLAND, SOUTH -	13	− 2	21	− 3	1603	+210	40	+ 5
Principal Grazing, &c., Districts. **6.** SCOTLAND, WEST -	10	− 1	17	− 3	1376	+110	34	+ 3
7. ENGLAND, N.W. - -	8	− 3	12	− 7	1364	+111	34	+ 3
8. ENGLAND, S.W. - -	21	+ 6	33	+ 6	1629	+125	41	+ 4
9. IRELAND, NORTH -	12	− 1	20	− 2	1253	+ 91	31	+ 2
10. IRELAND, SOUTH -	15	− 2	24	− 2	1381	+ 28	34	0
— CHANNEL ISLANDS -	16	− 1	25	− 1	1890	+125	47	+ 3

Bright Sunshine.—For several of the stations there are no "mean" values available, and the "difference from the mean" in some of the districts is consequently that of only a few of the stations.

General Remarks.

Weather during this period was extremely gloomy, damp, and foggy over the greater part of England (especially in London and its neighbourhood), and cloudy or dull over Ireland and Scotland. In the latter regions rain fell frequently, and in Ireland the falls were occasionally heavy.

Temperature just equalled the mean in England E., but in all other districts it was slightly in excess; in Scotland N., however, the excess was as much as 5°. The highest of the maxima were registered on somewhat irregular dates, and ranged from 62° in Scotland W., and 58° in Ireland S. and the Channel Islands to 52° in England N.E. The lowest of the minima were recorded between the 7th and 9th, and ranged from 25° in the Midland Counties, and 26° in Scotland E., to 34° in Scotland N., and to 38° in the Channel Islands.

Rainfall was more than the mean in Ireland, and just equal to it in Scotland W., but in all other parts of the Kingdom there was a deficit; over the central, southern, and eastern parts of England the fall was very slight.

Bright Sunshine was very deficient generally, especially over northern and eastern England. The percentage of the possible amount of duration ranged from 8 in England N.E., 9 in England E., and 10 in Scotland N. to 26 in the Midland Counties, and to 33 in England S.W. The lowest percentages of all were 2 at Stonyhurst, 3 at Geldeston, and 4 at Cambridge.

Barometer and Wind.—During nearly the whole of the period the barometer was highest and comparatively uniform in the south-east and lowest in the west and north-west. In the latter regions depressions frequently appeared and although they did not advance far over us, they caused the Southerly wind to increase considerably at times in the extreme west and north. Over the south-east and east of England calms or light Easterly airs were most general.

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II.—DATA from which the SUMMARY on page 265 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°				Inches	Inches.				
0. SCOTLAND, N.	Sumburgh Head ‡	51	41	49·4	43·7	46·6	+ 4·4	32	0	6	1·25	+0·27	*	*	*	*
	Stornoway	53	37	51·4	41·6	46·5	+ 4·3	33	1	6	1·12	+0·06	10·5	− 0·5	18	− 2
	Wick	51	35	49·4	41·4	45·4	+ 3·4	26	2	4	0·85	+0·15	*	*	*	*
	Lairg ‡	57	34	52·6	37·7	45·2	+ 4·4	40	12	4	0·20	−0·70	*	*	*	*
	Glencarron ‡	56	40	52·0	43·4	47·7	+ 6·9	40	0	5	1·83	−0·45	*	*	*	*
	Fort Augustus ‡	56	35	51·7	41·4	46·6	+ 4·9	35	2	4	0·62	−0·35	3·6	?	6	?
	Fort William ‡	54	41	51·8	44·8	48·3	+ 5·8	44	0	5	1·54	−0·28	4·1	?	7	?
1. SCOTLAND, E.	Nairn	57	34	53·7	40·0	46·9	+ 5·4	43	6	4	0·20	−0·32	*	*	*	*
	Aberdeen	51	32	48·7	37·0	42·9	+ 0·7	27	14	3	0·45	−0·28	11·5	− 3·3	20	− 6
	Braemar ‡	50	26	47·7	37·6	42·7	+ 4·0	23	12	4	0·37	−0·53	11·8†	?†	20†	?†
	Ochtertyre ‡	51	31	49·7	37·9	43·8	+ 2·8	30	11	5	0·42	−0·60	*	*	*	*
	Leith	56	32	51·3	36·3	43·8	+ 0·3	37	16	4	0·17	−0·33	*	*	*	*
	Marchmont ‡	51	32	47·4	34·7	41·1	0·0	15	30	5	0·31	−0·53	12·5	?	21	?
2. ENGLAND, N.E.	Alnwick Castle	51	34	48·7	39·3	44·0	+ 1·2	25	8	4	0·71	−0·07	*	*	*	*
	Durham	52	35	48·5	37·9	43·2	+ 1·2	26	11	4	0·50	−0·16	4·2	−10·0	7	−17
	Shields	52	37	49·3	39·4	44·4	+ 1·1	28	7	3	0·68	+0·10	*	*	*	*
	Scarborough ‖	52	37	49·9	39·9	44·9	+ 0·8	29	6	4	0·21	−0·49	*	*	*	*
	York	52	34	49·3	37·9	43·6	+ 0·6	28	11	3	0·10	−0·45	5·3	− 6·5	9	−10
	Spurn Head	50	38	48·0	40·3	44·2	− 0·3	23	5	4	0·06	−0·49	*	*	*	*
3. ENGLAND, E.	Hillington ‖	51	33	47·6	37·2	42·4	− 0·6	23	13	3	0·16	−0·46	4·4	− 9·6	7	−16
	Yarmouth	50	34	47·6	40·1	43·9	− 0·5	21	5	3	0·10	−0·62	*	*	*	*
	Geldeston	54	33	49·1	40·2	44·7	+ 0·5	26	5	3	0·04	−0·58	1·6	−16·3	3	−24
	Cambridge	52	32	47·6	35·4	41·5	− 1·6	16	27	2	0·10	−0·38	2·8	−1 ·4	4	−23
	Rothamsted	57	28	49·4	36·3	42·9	+ 0·2	30	16	2	0·17	−0·46	11 1	?	18	?
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	55	33	50·1	37·0	43·6	+ 0·9	32	14	3	0·07	- 0·44	*	*	*	*
	Loughborough	59	31	53·9	37·3	45·6	+ 2·6	45	13	2	0·07	−0·46	*	*	*	*
	Stamford (Ketton Hall)	55	31	50·9	36·3	43·6	+ 0·6	35	16	2	0·08	−0·52	*	*	*	*
	Cheadle ‖	52	32	49·4	38·5	44·0	+ 2·0	29	10	2	0·23	−0·35	*	*	*	*
	Churchstoke ‖	53	32	51·2	38·1	44·7	+ 2·0	35	11	1	0·02	−0·80	13·0	− 0·3	21	− 1
	Hereford ‖	54	28	51·3	36·1	43·7	− 0·2	37	17	1	0·04	−0·56	*	*	*	*
	Cirencester	55	25	51·3	33·3	42·3	− 0·2	39	24	1	0·06	−0·64	22·9	+ 8·7	36	+12
	Oxford	54	28	49·4	34·1	41·8	− 1·9	21	33	1	0·03	−0·50	13·2	− 1·8	21	− 3
5. ENGLAND, S.	London	54	32	51·1	37·7	44·4	− 0·3	35	12	4	0·18	−0·33	4·8†	− 5·9†	8†	− 9†
	North Foreland	55	39	50·7	44·1	47·4	+ 2·2	38	0	3	0·28	?	*	*	*	*
	Strathfield Turgiss ‖	54	28	49·5	35·2	42·4	− 1·1	31	19	3	0·09	−0·49	*	*	*	*
	Dungeness	57	36	52·1	44·4	48·3	+ 2·3	44	0	4	0·13	−0·70	*	*	*	*
	Hastings (St. Leonards)	55	40	51·9	44·3	48·1	+ 2·0	43	0	4	0·24	−0·56	13·3	− 4·9	21	− 8
	Southampton	57	30	52·6	39·0	45·8	+ 0·4	39	8	2	0·14	−0·55	18·9	+ 3·1	30	+ 6
	Hurst Castle	55	36	52·6	41·1	46·9	+ 0·2	38	3	3	0·05	−0·65	*	*	*	*
	Stowell ‖	54	29	50·8	35·4	43·1	− 0·8	35	18	3	0·09	:	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	62	36	54·6	41·9	48·3	+ 5·3	45	0	5	1·22	−0·84	*	*	*	*
	Glasgow	52	34	49·3	40·5	44·9	+ 2·2	27	4	4	0·67	−0·23	3·4	− 4·3	6	− 7
	Ardrossan	51	38	50·3	43·0	46·7	+ 2·3	33	0	5	1·11	+0·21	*	*	*	*
	Glenlee ‡	52	30	48·6	38·2	43·4	+ 1·9	26	11	6	1·93	+0·51	*	*	*	*
	Douglas (Isle of Man)	56	35	52·4	42·8	47·6	+ 2·8	39	0	5	1·28	+0·18	16·4	+ 0·6	27	+ 2
7. ENGLAND, N.W.	Newton Reigny	53	31	47·4	36·3	41·9	+ 0·1	15	24	4	0·34	−0·49	8·3	− 2·9	14	− 4
	Stonyhurst	51	34	46·9	39·5	43·2	0·0	19	7	4	0·39	−0·69	1·3	−10·3	2	−17
	Blackpool ‖	53	35	50·1	41·5	45·8	+ 1·8	29	1	3	0·78	−0·04	4·3	− 7·5	7	−13
	Manchester	53	36	48·5	39·7	44·1	+ 1·0	24	6	3	0·36	−0·52	*	*	*	*
	Liverpool Obsy. (Bidston)	53	38	50·6	42·7	46·7	+ 2·0	33	0	4	0·54	−0·17	*	*	*	*
	Llandudno ‖	55	41	52·7	44·1	48·4	+ 2·3	45	0	2	0·05	−0·75	16·3	+ 4·5	26	+ 7
	Holyhead	54	42	52·7	45·4	49·1	+ 2·1	50	0	5	1·32	+0·37	*	*	*	*
8. ENGLAND, S.W.	Llandovery	57	28	53·7	38·0	45·9	+ 1·7	44	11	6	0·28	−0·94	*	*	*	*
	Pembroke	54	41	52·9	47·0	50·0	+ 2·3	56	0	3	0·46	−0·45	19·2	+ 3·9	30	+ 5
	Arlington (N. Devon)	52	31	50·3	38·6	44·5	− 0·3	32	10	3	0·31	−1·17	*	*	*	*
	Cullompton ‖	54	27	52·1	33·7	42·9	− 2·2	41	23	3	0·25	−0·52	20·9	+ 7·7	33	+13
	Falmouth	55	42	53·3	43·2	48·3	+ 0·1	44	0	3	0·11	−1·17	20·1	+ 1·6	31	+ 2
	Plymouth	55	36	54·0	39·7	46·9	− 0·1	44	6	3	0·27	−0·63	?	?	?	?
	Prawle Point	56	41	53·6	44·7	49·2	+ 1·9	50	0	3	0·07	−0·68	*	*	*	*
9. IRELAND, N.	Malin Head	53	39	50·6	42·6	46·6	+ 2·8	32	0	5	0·53	?	*	*	*	*
	Londonderry	54	37	51·8	41·5	46·7	+ 2·9	35	1	5	1·12	+0·14	*	*	*	*
	Edenfel (Omagh)	52	31	49·4	38·1	43·8	+ 1·5	29	11	6	1·51	+0·69	*	*	*	*
	Mullaghmore	55	42	52·7	45·1	48·9	+ 2·9	48	0	4	1·17	+0·15	*	*	*	*
	Belmullet	53	38	52·0	45·0	48·5	+ 1·3	46	0	4	2·82	?	*	*	*	*
	Markree Castle	54	31	51·1	37·0	44·1	+ 0·6	36	14	4	1·19	+0·32	14·4	+ 0·3	24	+
	Brookeborough	53	31	49·1	36·4	42·8	+ 0·5	29	16	4	1·12	+0·14	*	*	*	*
	Armagh	53	33	49·7	39·0	44·4	+ 1·6	29	8	6	0·79	+0·14	11·7	− 2·1	19	− 4
	Donaghadee	53	29	50·6	38·9	44·8	+ 0·3	33	9	5	0·99	+0·23	*	*	*	*
	Edgeworthstown	54	31	50·3	37·6	44·0	+ 0·9	32	12	5	0·91	+0·11	*	*	*	*
10. IRELAND, S.	Dublin	55	34	51·6	41·6	46·6	+ 1·0	34	1	4	0·41	−0·17	23·3	+ 5·6	38	+ 9
	Parsonstown	54	32	52·1	37·9	45·0	+ 1·0	38	11	4	0·69	+0·04	11·4	− 4·8	18	− 8
	Kilkenny	52	31	51·6	37·3	44·5	− 0·8	37	13	5	0·79	+0·17	*	*	*	*
	Waterford	54	32	52·9	38·4	45·7	− 1·3	41	10	6	1·06	+0·20	*	*	*	*
	Roche's Point	54	38	52·7	43·7	48·2	+ 0·8	43	0	7	1·16	+0·14	*	*	*	*
	Valencia	54	36	53·3	43·3	48·3	0·0	44	0	7	1·89	+0·58	10·2	− 6·8	16	− 9
	Killarney	58	31	54·0	40·9	47·5	+ 1·2	43	3	7	1·02	?	*	*	*	*
	Foynes	58	33	53·9	41·6	47·8	+ 2·9	42	1	6	0·67	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	56	46	54·9	47·3	51·1	+ 0·9	64	0	3	0·53	−0·32	*	*	*	*
	Jersey	58	38	54·4	43·9	45·2	+ 0·5	50	0	5	0·20	−0·82	17·2	− 0·9	26	− 1

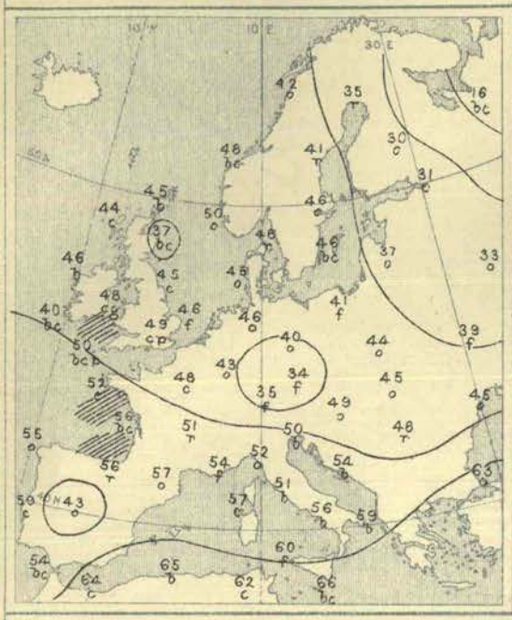
Stations marked ‖ are in connection with the Royal Meteorological Society, and those marked ‡ with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

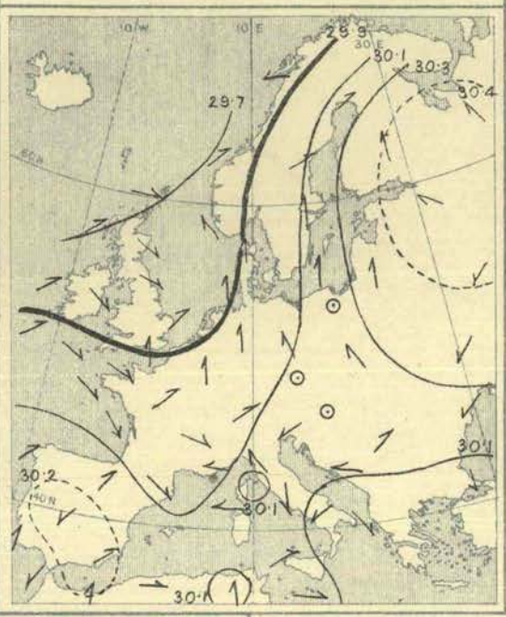
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory and the Meteorological Office, Victoria Street. For additional Reports of Sunshine see last page.

Sunday, 6th November.

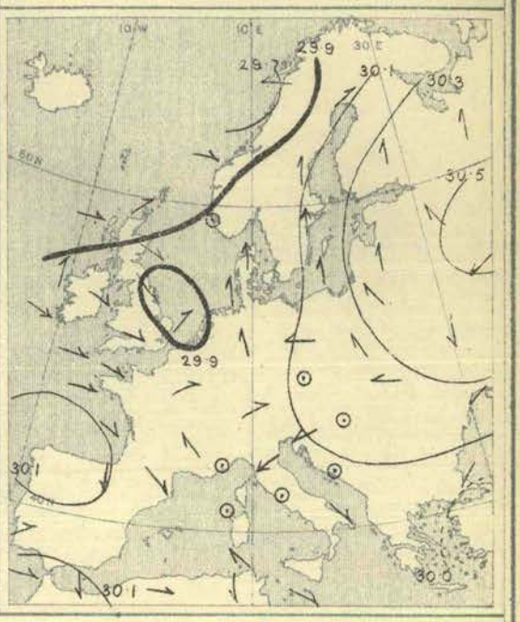
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather fine in Ireland, Scotland, and the south-west of England, showery over our southern counties, and foggy in some parts of the north and east of England. Cloudy over the greater part of the Continent, with fog at several of the German, Austrian, and south Russian stations, and rain in the south of France and many parts of Scandinavia. Fine and bright over the Adriatic, Italy, Algeria, and the south of Spain. Showers during day in many parts of Scandinavia, the United Kingdom, and France, but sky clearing over England in afternoon.

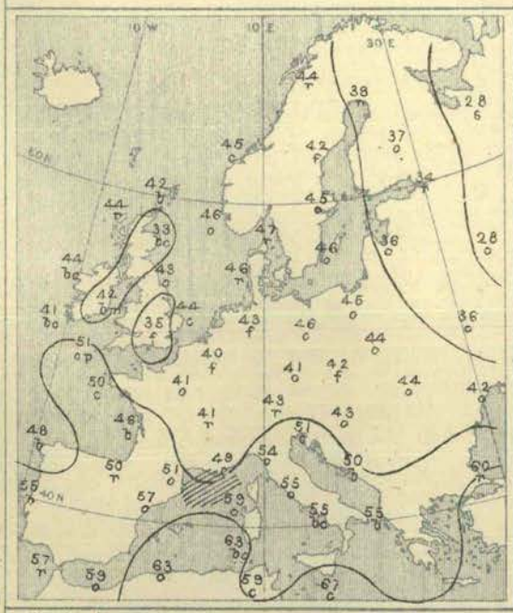
Temperature risen a little over northern Europe, fallen elsewhere. Morning readings highest, 66° at Malta, 65° at Algiers, 64° at Oran, and 62° at La Calle; above 55° at most of the Mediterranean stations, as well as on the coasts of Spain and the west coast of France. Lowest, 16° at Archangel, 30° at Uleaborg and Kuopio, 31° at St. Petersburg, and 33° at Moscow. Rising during day to 50° or more in nearly all parts of the United Kingdom and north of France, and reaching 59° at Ardrossan. Exceeding 60° in the west and south of France, and in Italy, and touching 70° to 75° on the southern side of the Mediterranean.

Wind light from between West and South over the greater part of our Islands; moderate to strong from the South-Eastward or Southward over north Germany and the eastern shores of the North Sea; moderate from South or South-West over Sweden and Finland. Variable over Austria and south Germany; light from North-East over central and southern Russia and from the Northward in Italy, Southerly in Spain and Algeria, North-Westerly in the west of France. No important change occurring during day, beyond a freshening of the Westerly wind on our south-western coasts and over the Bay of Biscay.

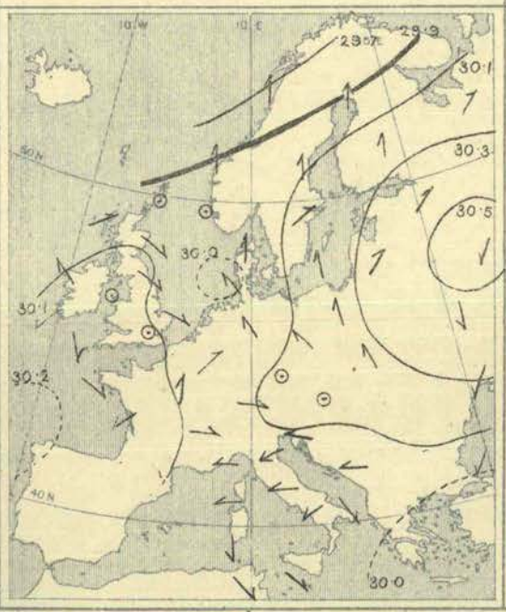
Barometer highest, 30·3 ins. to 30·4 ins. and upwards in an anticyclone covering the whole of Russia; 30·2 ins. and upwards in another system lying over Spain. Lowest, 29·7 ins. and less in a large shallow area lying to the northward of the United Kingdom; secondary disturbances reported over various parts of our Islands and the North Sea. Steady rise taking place over north-western Europe during day, but a rather decided fall in Portugal.

Monday, 7th November.

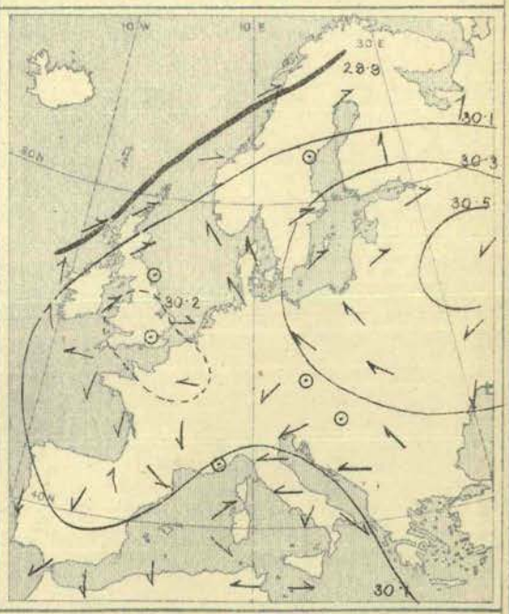
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning (1) fine over the greater part of the United Kingdom and western Europe, foggy in many places; rainy in the extreme north-west of Ireland and Scotland on the one hand, and over the south-west and south-east of France and south Germany on the other; (2) unsettled over Finland and northern Russia, with rain or snow in most places; (3) dull over south-eastern Europe, with rain in places. A little more rain later over Hungary, France, and the Channel, and a fresh fall setting in over Scotland and Ireland; thick wet fogs in London and its neighbourhood, but clearing temporarily in some localities.

Temperature fallen greatly over our Islands and considerably over north-western Europe generally. Morning readings highest, 55° to 67° over the southern shores of the Mediterranean, and exceeding 50° in most parts of southern Europe, as well as at Scilly and Jersey. Lowest, (1) 28° at Archangel and Moscow, 34° at St. Petersburg; (2) 34° at York and Oxford, 35° in London, 39° at Parsonstown, 41° at Paris. Rising to 50° and more in the western parts of our Islands and France during day, and touching 61° at Perpignan, Cette, and Croisette, and touching 70° to 75° on the southern side of the Mediterranean. Succeeding night cold inland.

Wind (1) Southerly over Finland, the Baltic, and Scandinavia, South-Easterly over central Europe, and North-Easterly in the south of Russia; (2) extremely variable and very light over the British Islands and western Europe, but mainly Southerly at the northern stations, and Northerly to North-Easterly in the south. Southerly breezes becoming general in Scotland and Ireland later and freshening in the extreme west of both countries.

Barometer highest, (1) 30·5 ins. and more to 30·1 ins. over Russia, the Baltic, Poland, and Austria-Hungary; (2) 30·2 ins. and more to 30·1 ins. in another high-pressure system spreading from the Atlantic over western Europe. Lowest, (1) 29·8 ins. and less over the north of Scandinavia, and (2) 30·0 ins. and less over the central parts of the Mediterranean. Falling in Ireland and Scotland later.

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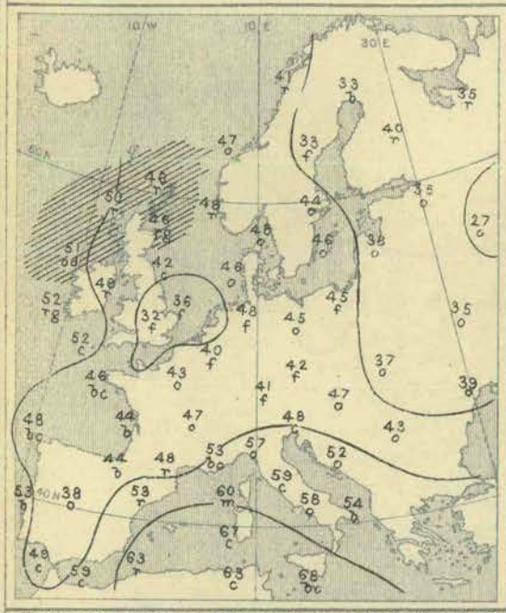
III.—SUMMARY OF WEATHER OVER EUROPE.

Tuesday, 8th November.

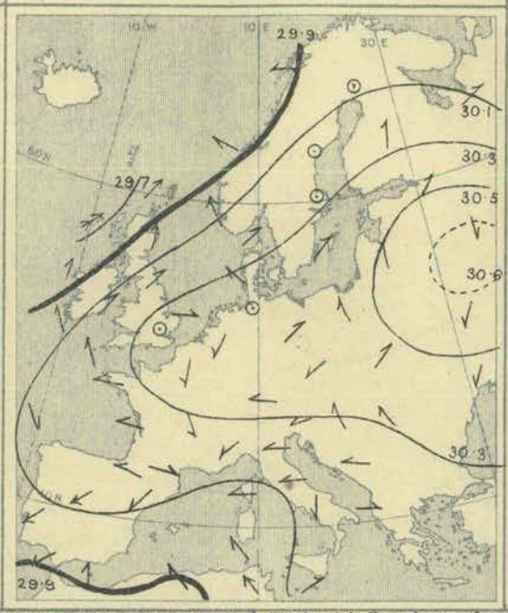
Temperature and Weather. 8 a.m.

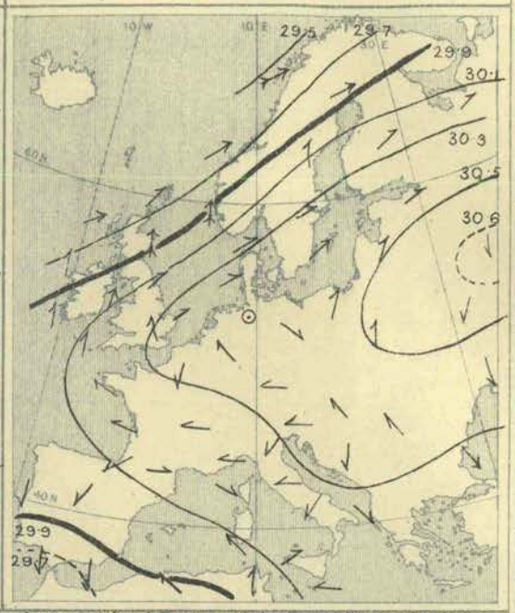


Weather in morning very foggy over the midland and eastern parts of England, the north of France, the Netherlands, Germany, and some part of Russia; fine and bright on the Portuguese and Spanish coasts and in the west of France, dull and rainy in the west and north of the British Isles, as well as at Bodö and in the north of Russia. Rainfall considerable in the Shetlands and Hebrides later, and heavy in the south and south-west of France (2·33 ins. at Perpignan); showers over Finland. Fog clearing over England during day, but much cloud prevalent.

Temperature risen considerably in the west and north of the British Islands, but continuing low elsewhere. Highest, 60° to 68° on the southern shores of the Mediterranean and exceeding 50° over Italy, the south of France, and the western parts of the United Kingdom. Lowest, (1) 27° at Moscow, 33° at Hernösand and Haparanda, 35° at St. Petersburg and Archangel; (2) 28° at Oxford, 32° in London, and 34° at Cambridge. Rising to 50° and more in the west and north of our Islands later, and to between 60° and 68° in the south and south-west of France and in Italy, and to 70° and more on the southern side of the Mediterranean.

Barometer and Wind. 8 a.m. and 6 p.m.



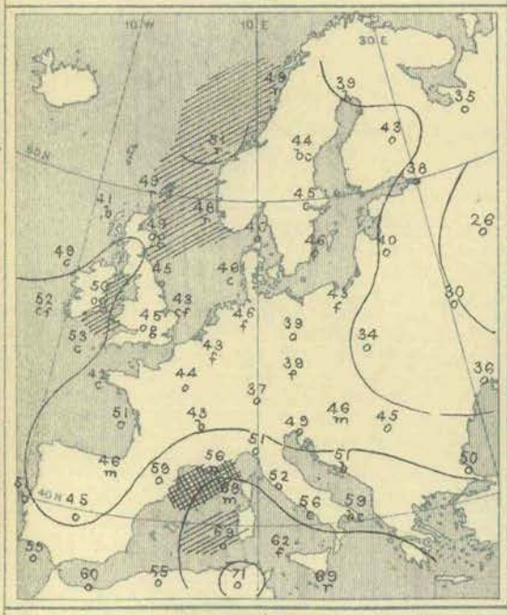


Wind mainly Easterly over the southern countries of Europe and the Bay of Biscay; Southerly, moderate to strong, on our western coasts, South-Westerly in Scotland (a gale in the Hebrides) and South-Easterly to Easterly in Norway. Anticyclonic airs over Russia. Southerly gale extending to Aberdeen and the west of Norway later; little change elsewhere.

Barometer highest, 30·6 ins. and more to 30·4 ins. over central Russia, Poland, and Hungary, and exceeding 30·2 ins. over the Baltic, Denmark, Germany, and the greater part of France and England. Lowest, 29·7 ins. and less in the Hebrides and north-west of Scotland; 29·9 ins. and less over Morocco and Algeria; gradients somewhat steep in Ireland, Scotland, and Scandinavia.

Wednesday, 9th November.

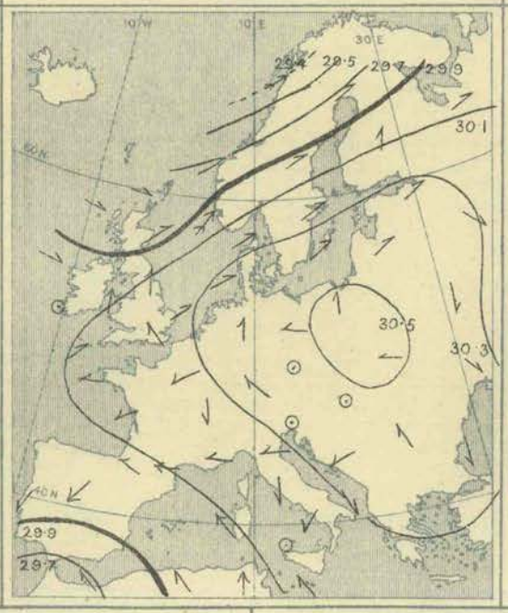
Temperature and Weather. 8 a.m.

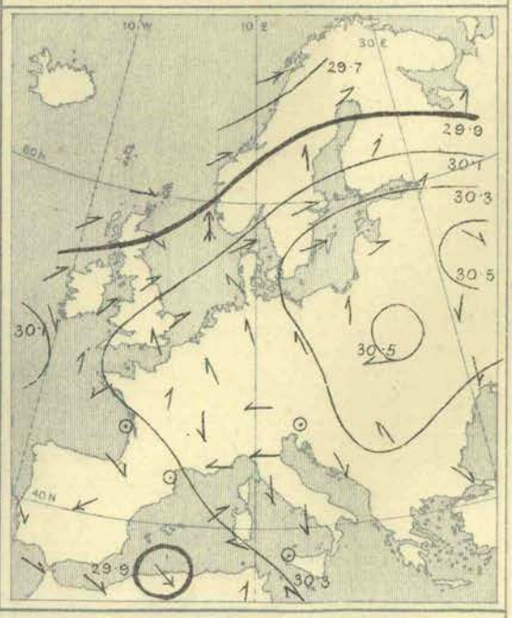


Weather in morning fine and bright in some parts of France, dull and foggy over central Europe, dull and unsettled over the northern and north-western countries, as well as over the southern half of the Peninsula, rainy in many parts of Ireland, Scotland, and Norway. Rainfall during day pretty general over Norway, Scotland, Ireland, and Wales, but amounts not large; heavy falls in some of the southern parts of France, and considerable falls over Algeria.

Temperature risen decidedly over England. Morning readings exceeding 70° at some Algerian stations, but, as a whole, varying between 55° and 65° on the Mediterranean coasts, as well as on the western and south-western coasts of the British Islands, and as high as 48° even at Bodö. Lower elsewhere, and, lowest of all, 26° at Moscow, 30° at Kiev, 34° at Warsaw, 35° at Lemberg and also at Archangel, not below 41° at any of our own stations. Rising later to 50° or more in almost all parts of the United Kingdom, and to 63° at Rochefort (but not exceeding 55° at Biarritz) to between 55° and 65° over Italy, and to between 70° and 77° on the southern side of the Mediterranean.

Barometer and Wind. 8 a.m. and 6 p.m.





Wind (1) South-Westerly over northern Europe, and blowing a gale on the Norwegian coasts; (2) southerly light to moderate, over England, and fresh over the Irish Channel, calm in the west of Ireland; (3) South-Easterly over Algeria and Sardinia, Easterly over the south of France and North-Easterly over the Peninsula; (4) extremely light and anticyclonic over central Europe. Becoming lighter and more variable over the British Isles later.

Barometer highest, 30·5 ins. and more to 30·3 ins. in an anticyclone covering all the central and south-eastern parts of Europe. Lowest, (1) 29·4 ins. and less over Finmark, and about 29·8 ins. in the north of Scotland; (2) 29·7 ins. and less to 29·9 ins. over Morocco and the southern parts of Spain. Rising in the west of our Islands later, falling in the east, as well as over France and central Europe, as the anticyclone then moved eastwards.

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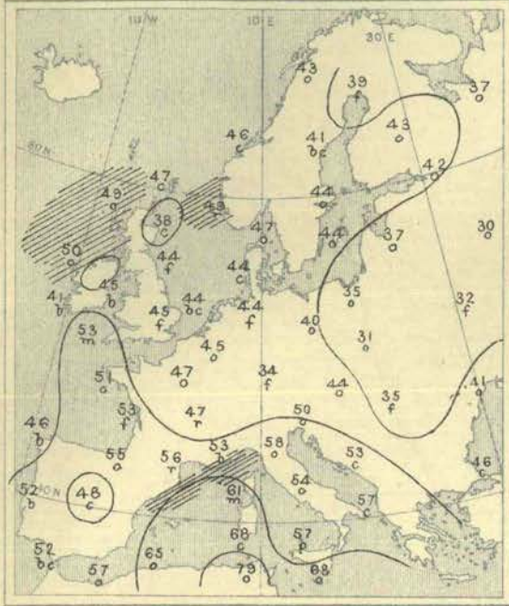
III.—SUMMARY OF WEATHER OVER EUROPE.

Thursday, 10th November.

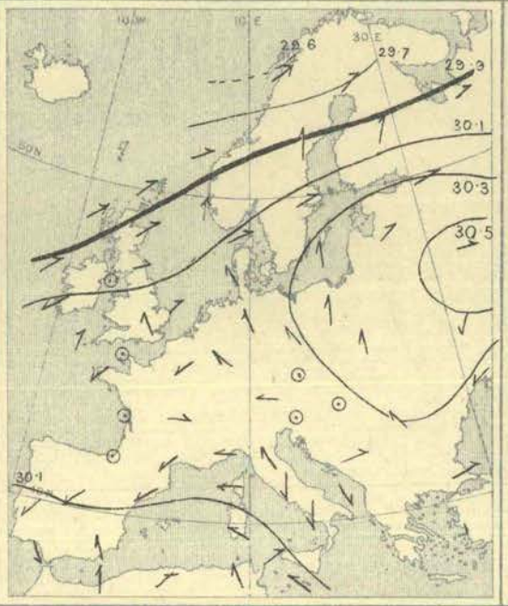
Temperature and Weather. 8 a.m.

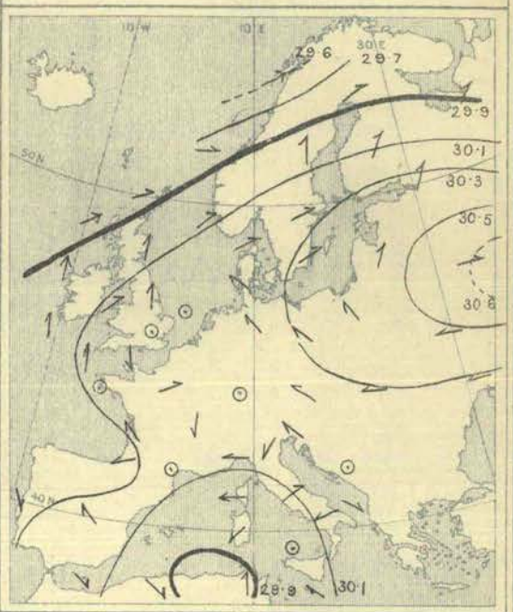


Weather in morning again very dull over the nearly whole of Europe, foggy at many stations, and rainy at a few (more particularly in the south of France), but clear and bright in some of the western parts of our Islands: some rain later in the latter regions as well as in France; a considerable fall at Nemours and Tunis, and a few showers over northern Europe also.

Temperature changing fitfully (fallen over our Islands). Morning readings highest, 73° at La Calle, and exceeding 60° at several of the Mediterranean stations; exceeding 50° in the west of France, and 40° on the coasts of the British Islands, Norway, Sweden, and Finland. Lowest, 30° at Moscow, 31° at Warsaw, 32° at Kiev, 33° at Cracow, and 34° at Munich. Rising to 50° and more at most of our own stations later, and to 65° and more in the south-west and south of France, and over Italy, and to 70° and more on the southern side of the Mediterranean.

Barometer and Wind. 8 a.m. / 6 p.m.



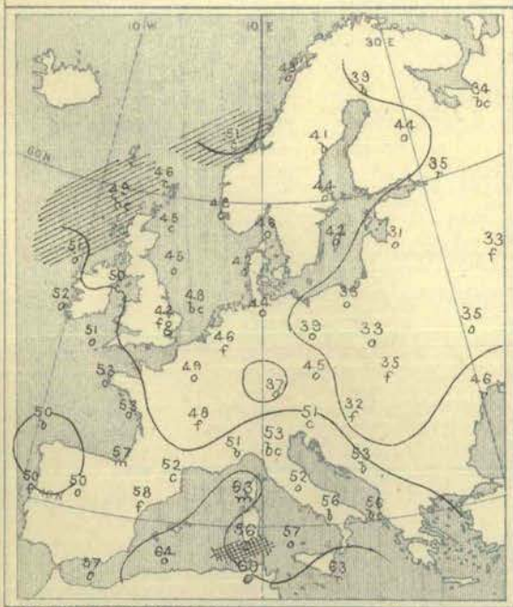


Wind Southerly or South-Westerly over northern Europe, the Baltic, and the northern and north-western parts of the United Kingdom, and blowing strongly at some of the Atlantic coast stations; South-Easterly, light, over north Germany, extremely variable and light over Russia and central Europe; Easterly to North-Easterly in the south and blowing a moderate gale at Sanguinaire. Becoming Southerly in Ireland later, and freshening; increasing to a moderate gale from South-West in the Minch. Blowing strongly from the Eastward over the northern parts of the Mediterranean.

Barometer highest, 30·5 ins. and more to 30·3 ins. over central Russia, Hungary, Poland, and the Baltic, and exceeding 30·1 ins. over Germany, France, the Bay of Biscay and England. Lowest, 29·6 ins. off the coast of Finmark, 29.8 ins. and less off the north-west of our Islands, and 30·0 ins. and less over Algeria. Falling rather decidedly on our extreme western coast later, and a well formed depression appearing over Algeria.

Friday, 11th November.

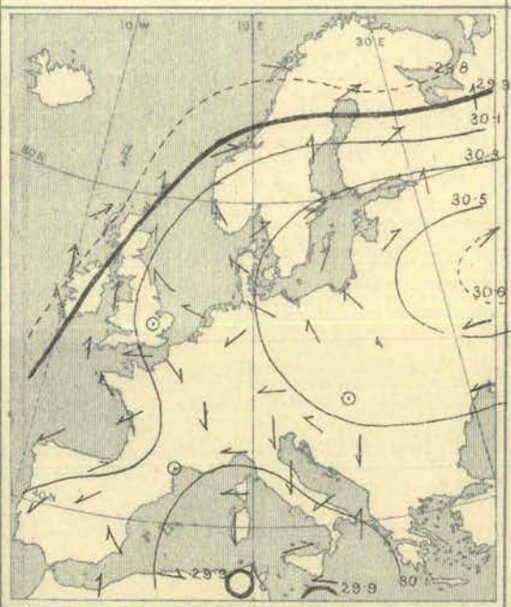
Temperature and Weather. 8 a.m.

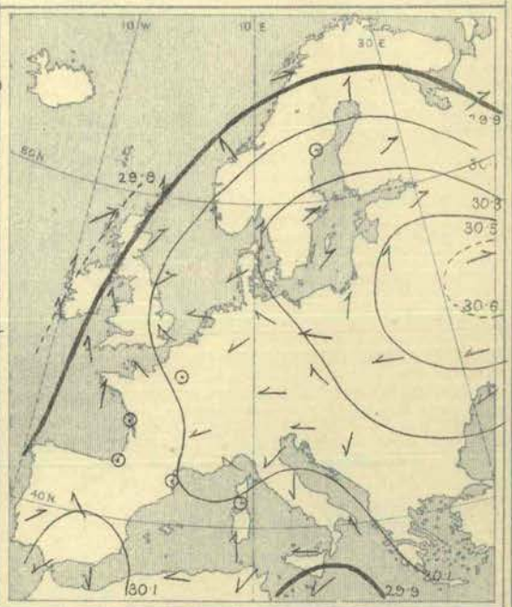


Weather in morning continuing very foggy over the greater part of western and central Europe, including the eastern half of England; clear and bright at many of the Mediterranean and Spanish stations, dull and rainy in the west and south of Ireland. Some rain later in the last named districts and in France (a heavy fall at Gap), as well as in the south of England and some parts of Germany; a considerable fall at Bodö also; fog somewhat intermittent in London, but very dense at times.

Temperature not changing much. Morning readings below 70° everywhere; ranging from 50° to 68° at the Mediterranean stations and exceeding 50° on the Atlantic coasts of the Peninsula, France, and the British Islands generally. Lowest, (1) 30° at Kharkov, and 33° to 35° over nearly the whole of Russia, 32° at Breslau and Buda-Pesth, 33° at Warsaw; (2) 32° at Oxford, 35° at York. Rising later to between 50° and 57° in Scotland, and to between 46° and 53° over England, to 61° at Brest, to above 66° in the south of France generally, and to upwards of 70° at Palermo, not so high over Algeria.

Barometer and Wind. 8 a.m. / 6 p.m.





Wind Southerly, fresh to strong, over the western and northern parts of the British Islands; South-Westerly, moderate to strong, over northern Europe, but South-Easterly, light, over central Europe, and chiefly Easterly and Southerly over the southern countries, at Malta, and on the coast of Tunis. Backing Northward at the latter stations during day; little change in our Islands.

Barometer highest, 30·6 ins. and more to 30·4 ins. over central Russia, Poland, and Hungary, and exceeding 30·1 ins. over nearly the whole of Europe. Lowest, 29·8 ins. and less over Lapland and the extreme north-west of our Islands, and below 30·0 ins. over Tunis and Malta. Falling over the United Kingdom and western Europe generally during the day, but rising a little over Scandinavia.

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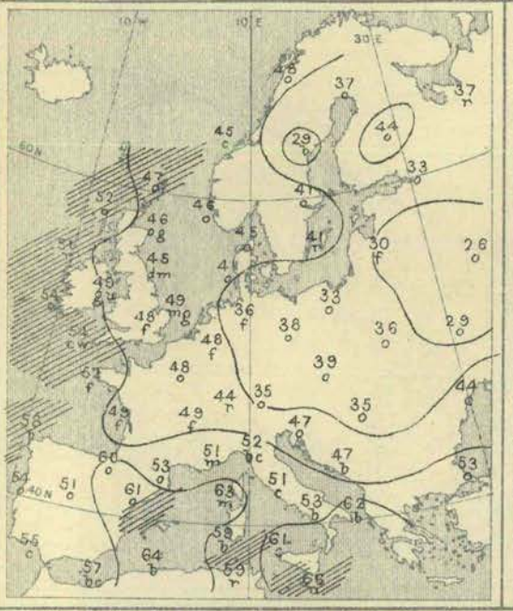
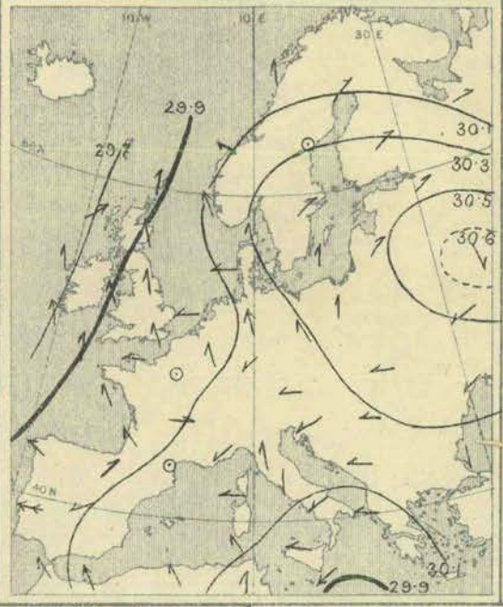
III.—SUMMARY OF WEATHER OVER EUROPE.

Saturday, 12th November.

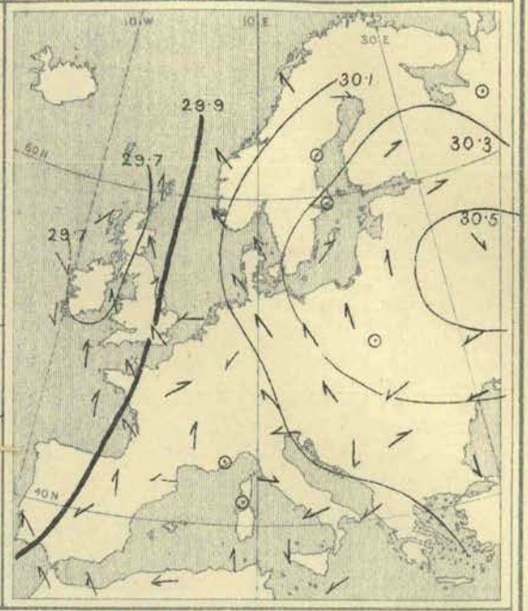
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning overcast in almost all countries, but clear and bright at many of the Mediterranean stations: foggy again over the Netherlands and England, rainy and unsettled in some parts of our Islands and at Archangel and Belfort. Rain later over the greater part of the United Kingdom—heavy in the west—considerable quantities in several parts of France and south-eastern Europe, as well as (locally) in the north of Russia, thunder and lightning at several of the French stations.

Temperature risen decidedly over England and in Austria; fallen over Scandinavia. Morning readings 51° to 60° and more at the Mediterranean stations (66° at Malta), 50° and more in the west of our Islands, lower elsewhere. Lowest, 26° at Moscow, 29° at Kiev, 30° at Riga and Memel, and below 40° over nearly the whole of Germany and Austria. Rising later to between 50° and 58° over the United Kingdom, to 60° and more in the south of France and over Italy, and to 70° and more over some parts of Algeria and at Palermo. Changes in following night very irregular over England.

Wind Easterly over south-eastern Europe, South-Easterly over Germany, Southerly to South-Westerly over the Baltic and Scandinavia; calm over the greater part of England, South-Easterly to Southerly on our western coasts, and blowing strongly in places. Shifting suddenly to North-West in Ireland later, becoming very light from South and South-East over England.

Barometer highest 30·6 ins. and more to 30·3 ins. in an anticyclone lying over central Russia, Poland, the Baltic, and south of Sweden, and exceeding 30·0 ins. over all the rest of Continental Europe. Lowest, 29·7 ins. and less over the west of Ireland and neighbouring parts of the Atlantic, and below 29·9 ins. to the south-westward of Lisbon. A long "V" advancing over Ireland later from the Atlantic, and the depression near Lisbon beginning to move northwards.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟿ = a heavy gale; ⟿ = a gale; ⟿ = a fresh to strong breeze; ⟿ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During the whole of this week a large anticyclone has been lying over Russia, and stretching thence in a ridgelike form over the whole of central and western Europe, while low-pressure systems have prevailed to the north-westward of Norway, Scotland, and Ireland, and shallow depressions occasionally over the Mediterranean. Thus, while the wind has been South-Westerly and Southerly over the north-western countries, and Easterly in the south, anticyclonic and variable airs have been chiefly prevalent over the Continent. Dull foggy weather has been very general, without much rain, except in the west of Ireland, in which region Southerly and Westerly winds of considerable strength have caused a rainfall in excess of the mean. Temperature has been low in the east, very high in the west.

BRIGHT SUNSHINE Values for the Week in addition to those found on page 266.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	12·3	?	21	?	EASTBOURNE	15·4	?	24	?
OSWALDKIRK (Yorkshire)	6·1	?	10	?	TENBY	15·3*	?	24*	?
WORKSOP	10·1	− 3·0	16	− 6	NEWQUAY	22·7	?	35	?
THURCASTON (Leicestershire)	22·6	+ 9·0	36	+14	TORQUAY	27·2*	?	43*	?
MARGATE	4·2	?	7	?	ARLEY COTTAGE (County Cavan)	9·9	?	16	?
WESTBOURNE (Sussex)	16·2*	?	26*	?	GUERNSEY	14·9*	?	23*	?
BRIGHTON	18·3	?	29	?					

The values at Westbourne, Tenby, Torquay and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.
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VOL. IX. No. 46.] *Third Series.* WEEK ENDING SATURDAY, 19TH NOVEMBER, 1892. [*Price 6d.* [*Annual subscription, post paid, £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years' observations (1871–90). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the ten years 1881-90. RAINFALL.—*The Mean amounts* are those for the corresponding periods in the twenty-five years 1866–90, but the *Mean numbers of Rainy Days* are those for the ten years 1881-90, only. BRIGHT SUNSHINE.—*The Mean values* employed are those for the corresponding periods in the ten years 1881–90.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 272.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1892. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	55	29	48·1	37·7	42·9	2 above.	24	+ 6	12	− 4	1704*	−128	848	+240
	1. SCOTLAND, EAST -	56	21	45·7	33·8	39·8	0 (average)	10	−19	32	+11	1975	−339	947	+298
	2. ENGLAND, N.E. - -	55	24	47·5	37·2	42·4	0 (average)	23	+ 1	13	0	2253	−219	766	+221
	3. ENGLAND, EAST -	60	30	50·9	42·4	46·7	5 above.	33	+ 8	0	−14	2682	−184	819	+194
	4. MIDLAND COUNTIES	60	28	48·5	39·8	44·2	3 above.	25	0	6	−11	2641	−162	905	+276
	5. ENGLAND, SOUTH -	62	30	52·1	45·3	48·7	5 above.	47	+13	0	− 9	2970	−151	587	+130
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	56	28	48·9	37·4	43·2	1 above.	28	+ 5	13	+ 2	2158	−234	691	+227
	7. ENGLAND, N.W. -	60	26	49·0	39·7	44·4	1 above.	26	0	6	− 3	2431*	−169	620	+173
	8. ENGLAND, S.W. -	60	26	52·0	43·0	47·5	2 above.	39	+ 1	0	− 4	2776	−147	464	+127
	9. IRELAND, NORTH -	57	29	49·1	37·7	43·4	1 above.	28	+ 2	12	0	2366*	−187	545	+144
	10. IRELAND, SOUTH -	56	28	51·8	38·5	45·1	0 (average)	36	− 1	10	+ 2	2764	−135	465	+158
	— CHANNEL ISLANDS -	58	38	54·6	47·6	51·1	3 above.	64	+10	0	0	3347	+ 9	164	+ 41

Rainfall.

	DISTRICTS. (See p. 272.)	For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1892. Number of Rainy Days.	Difference from Mean.	Total Fall.	Difference from Mean.
			10ths of In.	10ths of In.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	5	9	3 less.	227	+14	43·6	+ 1·2
	1. SCOTLAND, EAST -	3	9	1 more.	180	+ 5	26·3	− 1·8
	2. ENGLAND, N.E. - -	5	4	3 less.	178	+16	24·3	+ 0·9
	3. ENGLAND, EAST -	4	7	1 more.	166	+ 6	25·6	+ 2·5
	4. MIDLAND COUNTIES-	5	7	0 (average)	158	+ 1	22·0	− 3·5
	5. ENGLAND, SOUTH -	5	12	6 more.	144	− 9	22·3	− 2·3
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	6	13	1 less.	183	− 1	42·0	− 1·7
	7. ENGLAND, N.W. - -	5	6	3 less.	183	+13	33·6	+ 2·7
	8. ENGLAND, S.W. - -	6	10	1 less.	169	− 8	27·5	− 8·4
	9. IRELAND, NORTH -	6	13	4 more.	202	+ 3	34·6	+ 2·1
	10. IRELAND, SOUTH -	5	13	5 more.	175	− 7	34·5	+ 0·3
	— CHANNEL ISLANDS -	5	12	2 more.	169	−19	26·8	− 2·3

Bright Sunshine.

	DISTRICTS. (See p. 272.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1892. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	5	− 8	9	−15	1083	− 36	26	− 1
	1. SCOTLAND, EAST -	5	− 8	8	−18	1280*	− 12	31	0
	2. ENGLAND, N.E. - -	5	− 6	9	−12	1243	+ 56	30	+ 1
	3. ENGLAND, EAST -	8	− 6	13	− 8	1469	+ 17	36	0
	4. MIDLAND COUNTIES-	5	− 7	8	−11	1406	+111	34	+ 2
	5. ENGLAND, SOUTH -	8	− 4	13	− 6	1611	+205	40	+ 5
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	8	− 2	14	− 3	1384	+108	34	+ 3
	7. ENGLAND, N.W. - -	7	− 3	12	− 5	1371	+108	33	+ 2
	8. ENGLAND, S.W. - -	13	+ 2	20	+ 1	1642	+124	40	+ 3
	9. IRELAND, NORTH -	12	0	20	0	1265	+ 88	31	+ 2
	10. IRELAND, SOUTH -	13	− 1	21	− 4	1394	+ 25	34	0
	— CHANNEL ISLANDS -	10	− 4	16	− 6	1900	+116	47	+ 3

Bright Sunshine.—For several of the stations there are no "mean" values available, and the "difference from the mean" in some of the districts is consequently that of only a few of the stations.

General Remarks.

Weather was mostly dull and unsettled, with considerable falls of rain, in all but the eastern districts, and with occasional fogs over the inland parts of Europe.

Temperature was above the mean in all districts excepting Scotland E., England N.E., and Ireland S., the excess being slight in the western parts of the Kingdom, but large (three to five degrees) over our eastern, midland, and southern counties. The highest readings were observed on the 14th or 15th, when the thermometer rose to 55° or a little above in Ireland and Scotland, and to 60° or a little above in most parts of England. On the 18th the daily maxima over the north of England were only a degree or two above the freezing point. The lowest readings, which were registered on the 18th or 19th, ranged from 21° in Scotland E. (at Braemar), and 24° in England N.E., to 30° in England S. and E., and to 38° in the Channel Islands.

Rainfall was considerably in excess of the average over Ireland and the south of England, and slightly in excess over the eastern parts of Great Britain and the Channel Islands. Elsewhere the aggregate fall was either less than or equal to the normal.

Bright Sunshine was again very deficient in nearly all districts. Over the northern and central parts of Great Britain the duration only reached 8 or 9 per cent. of the possible amount, but in Ireland and the south-west of England the percentage value was 20 or 21.

Barometer and Wind.—During the greater part of the week barometrical pressure was highest to the east of our Islands, and lowest in a series of cyclonic systems which travelled along our western coasts, the prevailing winds being Southerly or South-Easterly. On the 16th, however, when an anticyclone of moderate height was developed temporarily off our south-west coasts, the wind over the southern parts of the Kingdom shifted to the North-Westward or Northward. At the close of the week, some small and very shallow barometrical depressions appeared over the south-west of our Islands and moved eastwards, light variable breezes being reported over our south-western and southern districts.

* This value has been altered slightly owing to the receipt of further information.

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II.—DATA from which the SUMMARY on page 271 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°				Inches	Inches.				
0. SCOTLAND, N.	Sumburgh Head	51	38	47·6	41·3	44·5	+ 3·0	20	2	7	1·42	+0·44	*	*	*	*
	Stornoway	50	32	48·4	38·1	43·3	+ 1·5	25	11	5	0·89	−0·16	12·9	+ 3·9	24	+ 6
	Wick	50	36	46·6	39·3	43·0	+ 2·1	18	8	4	0·88	+0·20	*	*	*	*
	Lairg ℌ	53	29	46·7	33·1	39·9	+ 0·3	13	34	3	0·36	−0·52	*	*	*	*
	Glencarron ℌ	53	32	48·7	35·3	42·0	+ 2·2	19	19	4	0·82	−1·45	*	*	*	*
	Fort Augustus ℌ	55	31	48·9	37·5	43·2	+ 2·6	27	13	5	0·71	−0·29	0·0	?	0	?
	Fort William ℌ	55	34	50·1	39·2	44·7	+ 3·3	31	8	6	1·37	−0·45	1·4	?	3	?
1. SCOTLAND, E.	Nairn	51	25	47·4	34·9	41·2	+ 0·8	15	29	2	0·24	−0·29	*	*	*	*
	Aberdeen	51	29	46·4	35·9	41·2	+ 0·2	12	25	4	1·41	+0·68	3·1	− 9·4	6	−18
	Braemar ℌ	51	21	43·7	30·8	37·3	− 0·2	5	41	3	1·23	+0·33	4·7 †	?†	8†	?†
	Ochtertyre ℌ	53	30	45·7	34·4	40·1	+ 0·1	10	30	4	1·52	+0·50	*	*	*	*
	Leith	56	28	47·4	34·1	40·9	− 1·4	15	30	3	0·13	−0·38	*	*	*	*
	Marchmont ℌ	52	27	43·7	32·6	38·2	− 1·8	5	34	4	0·61	−0·21	5·0	?	9	?
2. ENGLAND, N.E.	Alnwick Castle	53	25	46·0	33·6	39·8	− 1·7	11	32	4	0·37	−0·41	*	*	*	*
	Durham	54	24	46·2	33·7	40·0	− 0·7	12	32	6	0·21	−0·49	5·2	− 7·5	9	−14
	Shields	55	28	47·9	38·0	43·0	+ 0·8	24	11	2	0·15	−0·50	*	*	*	*
	Scarborough ℌ	55	29	48·3	37·3	42·8	0·0	25	13	5	0·57	−0·13	*	*	*	*
	York	55	29	47·6	39·4	43·5	+ 1·8	21	7	5	0·60	+0·09	3·8	− 5·7	7	−10
	Spurn Head	53	32	48·7	41·3	45·0	+ 1·8	24	2	5	0·21	−0·36	*	*	*	*
3. ENGLAND, E.	Hillington ℌ	58	32	50·7	40·6	45·7	+ 4·1	32	4	5	0·44	−0·19	10·9	− 1·1	18	− 2
	Yarmouth	55	38	50·7	43·9	47·3	+ 4·3	37	0	5	0·82	+0·12	*	*	*	*
	Geldeston	58	32	52·0	43·2	47·6	+ 4·8	39	0	2	0·78	+0·14	6·5	− 8·3	11	−14
	Cambridge	60	30	51·3	42·0	46·7	+ 4·9	33	0	4	0·62	+0·14	9·7	− 7·5	16	−11
	Rothamsted	59	31	49·8	42·2	46·0	+ 4·5	28	0	4	0·89	+0·26	4·9	?	8	?
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	57	28	48·0	38·3	43·2	+ 1·7	24	10	5	0·37	−0·13	*	*	*	*
	Loughborough	59	28	48·9	39·4	44·2	+ 2·2	26	7	5	0·26	−0·25	*	*	*	*
	Stamford (Ketton Hall)	57	34	49·3	41·7	45·5	+ 3·7	26	1	5	0·31	−0·29	*	*	*	*
	Cheadle ℌ	55	30	46·9	38·8	42·9	+ 2·1	20	9	5	0·81	+0·09	*	*	*	*
	Churchstoke ℌ	57	28	47·2	36·0	41·6	+ 0·2	15	25	5	0·71	−0·10	6·2	− 5·3	10	− 9
	Hereford ℌ	56	29	48·5	39·6	44·1	+ 1·4	25	7	6	0·88	+0·28	*	*	*	*
	Cirencester	57	34	48·9	41·9	45·4	+ 4·4	24	0	6	0·90	+0·19	1·6	−10·4	3	−18
	Oxford	60	31	50·0	42·7	46·4	+ 3·9	31	0	5	0·97	+0·42	4·6	− 7·6	8	−13
5. ENGLAND, S.	London	62	35	52·9	45·0	49·0	+ 5·8	49	0	5	1·31	+0·79	7·5 †	− 1·0†	13†	0†
	North Foreland	57	41	51·7	46·4	49·1	+ 5·1	50	0	3	0·87	?	*	*	*	*
	Strathfield Turgiss ℌ	59	30	50·2	43·2	46·7	+ 4·6	33	0	7	1·17	+0·57	*	*	*	*
	Dungeness	56	41	52·9	47·9	50·4	+ 5·6	59	0	6	0·89	+0·09	*	*	*	*
	Hastings (St. Leonards)	57	41	52·6	45·6	49·1	+ 4·3	50	0	4	1·35	+0·58	8·2	− 6·8	13	−12
	Southampton	60	37	53·6	45·4	49·5	+ 5·3	53	0	5	1·57	+0·87	7·9	− 4·7	13	− 8
	Hurst Castle	57	38	52·6	45·9	49·3	+ 4·1	51	0	4	1·29	+0·59	*	*	*	*
	Stowell ℌ	57	36	50·5	42·8	46·7	+ 3·8	33	0	6	1·36	?	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	56	36	51·4	38·1	44·8	+ 2·8	36	11	6	1·67	−0·49	*	*	*	*
	Glasgow	54	34	47·1	38·3	42·7	+ 0·6	20	10	5	0·93	+0·05	3·0	− 3·0	5	− 6
	Ardrossan	53	34	48·3	38·9	43·6	+ 0·4	24	9	5	1·04	+0·13	*	*	*	*
	Glenlee ℌ	54	28	47·3	34·1	40·7	+ 0·5	15	31	5	1·67	+0·19	*	*	*	*
	Douglas (Isle of Man)	56	32	50·3	37·7	44·0	0·0	32	12	7	0·94	−0·17	13·2	− 0·7	23	− 1
7. ENGLAND, N.W.	Newton Reigny	55	26	47·0	34·3	40·7	− 0·3	14	31	5	0·67	−0·14	9·1	− 1·1	16	− 2
	Stonyhurst	55	27	47·3	37·2	42·3	+ 0·3	22	13	6	0·54	−0·54	4·4	− 5·8	8	−10
	Blackpool ℌ	56	32	48·3	40·0	44·4	+ 1·8	25	6	5	0·76	−0·05	2·0	− 8·0	3	−15
	Manchester	56	29	47·9	39·1	43·5	+ 1·5	23	8	5	0·58	−0·24	*	*	*	*
	Liverpool Obsy. (Bidston)	57	32	48·0	40·6	44·3	+ 0·8	22	4	6	0·36	−0·33	*	*	*	*
	Llandudno ℌ	60	35	52·9	41·8	47·4	+ 2·4	39	1	5	0·32	−0·49	13·1	+ 3·1	22	+ 4
	Holyhead	57	38	51·4	44·6	48·0	+ 1·9	42	0	6	0·32	−0·08	*	*	*	*
8. ENGLAND, S.W.	Llandovery	60	26	51·4	38·3	44·9	+ 1·9	36	10	7	0·90	−0·27	*	*	*	*
	Pembroke	56	40	52·1	45·6	48·9	+ 2·2	48	0	6	1·37	+0·43	14·6	+ 1·1	24	+ 1
	Arlington (N. Devon)	56	30	50·4	40·0	45·2	+ 1·6	31	6	6	0·57	−0·91	*	*	*	*
	Cullompton ℌ	56	30	51·6	41·9	46·8	+ 2·8	34	0	7	0·86	+0·03	6·4	− 4·4	10	− 8
	Falmouth	58	40	53·0	45·1	49·1	+ 1·6	50	0	5	0·83	−0·45	19·6	+ 3·7	32	+ 6
	Plymouth	57	36	53·4	44·4	48·9	+ 2·9	48	0	5	0·76	−0·06				
	Prawle Point	55	38	52·3	45·6	49·0	+ 2·9	49	0	6	1·43	+0·67	*	*	*	*
9. IRELAND, N.	Malin Head	53	41	48·1	42·3	45·2	+ 2·2	22	0	6	1·49	?	*	*	*	*
	Londonderry	55	34	49·9	37·9	43·9	+ 1·2	31	11	6	1·71	+0·71	*	*	*	*
	Edenfel (Omagh)	53	32	47·4	36·9	42·2	+ 0·8	23	14	7	1·73	+0·89	*	*	*	*
	Mullaghmore	57	37	50·0	41·0	45·5	+ 0·4	29	3	5	0·95	−0·12	*	*	*	*
	Belmullet	52	33	50·1	39·6	44·9	− 1·6	30	7	6	1·17	?	*	*	*	*
	Markree Castle	54	29	49·1	33·6	41·4	− 1·1	51	24	5	0·96	+0·16	12·2	0·0	21	− 1
	Brookeborough	54	30	49·2	34·3	41·8	+ 0·6	20	32	5	1·76	+0·76	*	*	*	*
	Armagh	53	31	49·0	36·2	42·6	+ 0·9	29	16	5	1·46	+0·78	13·4	+ 0·4	23	0
	Donaghadee	54	34	49·4	40·3	44·9	+ 1·4	27	5	6	0·84	+0·09	*	*	*	*
	Edgeworthstown	55	30	49·1	34·7	41·9	− 0·2	20	31	4	0·87	+0·02	*	*	*	*
10. IRELAND, S.	Dublin	56	34	51·5	40·9	46·2	+ 1·4	34	3	3	0·92	+0·34	11·3	− 4·8	19	− 9
	Parsonstown	56	30	50·7	36·1	43·4	+ 0·4	35	17	4	0·79	+0·12	10·1	− 4·2	17	− 8
	Kilkenny	55	28	50·7	37·7	44·2	− 0·5	33	12	5	1·53	+0·91	*	*	*	*
	Waterford	54	29	51·7	39·9	45·8	− 0·2	35	6	5	1·55	+0·66	*	*	*	*
	Roche's Point	54	35	52·1	41·3	46·7	+ 0·3	38	2	5	0·98	−0·12	*	*	*	*
	Valencia	54	33	52·4	37·6	45·0	− 2·5	39	12	7	2·00	+0·75	16·2	+ 2·5	27	+ 4
	Killarney	56	29	53·0	34·2	43·6	− 1·8	44	22	7	1·91	?	*	*	*	*
	Foynes	56	35	51·9	40·2	46·1	+ 1·6	36	5	5	0·79	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	56	42	54·3	46·0	50·2	+ 0·8	57	0	4	0·81	−0·07	*	*	*	*
	Jersey	58	38	54·9	49·1	52·0	+ 4·2	70	0	5	1·54	+0·55	13·9	− 1·1	23	− 2

Stations marked ℌ are in connection with the Royal Meteorological Society, and those marked ℌ with the Scottish Meteorological Society.

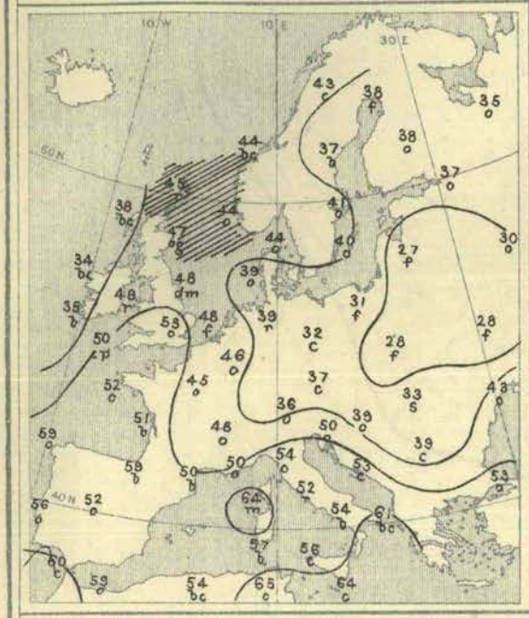
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations Stokes' or somewhat similar Bright Sunshine Recorders are in use.

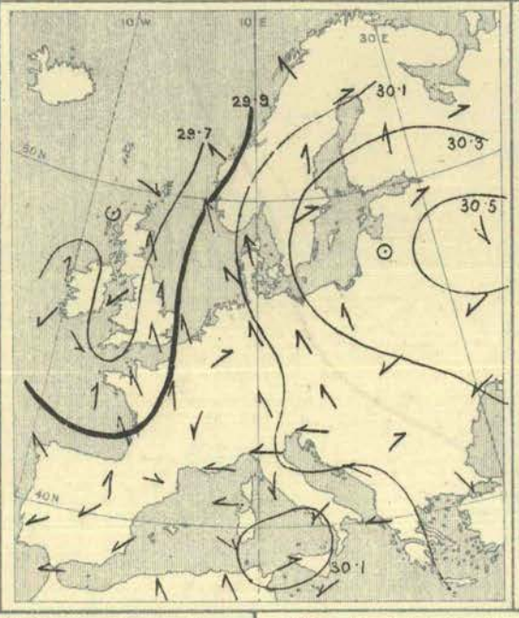
For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory and the Meteorological Office, Victoria Street. For additional Reports of Sunshine see last page.

Sunday, 13th November.

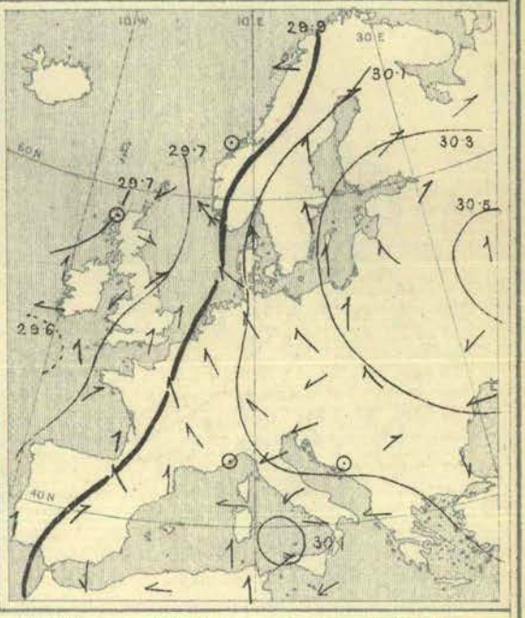
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning quiet, dull, and foggy over all the eastern half of Europe, dull over France and a great deal of the Mediterranean; cloudy or overcast and unsettled over Great Britain, the North Sea, and Finland, with rain in places, clear in Ireland. Showery, with bright intervals, over the United Kingdom later, but falls slight except at Valencia, where more than an inch fell. Considerable fall of rain reported in the south of France, the largest amount being 1·2 ins. at Croisette.

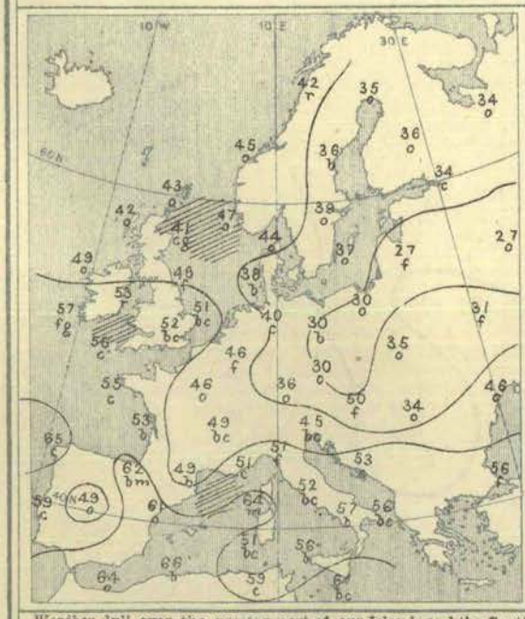
Temperature risen in England, fallen rapidly in Ireland, and slightly over the greater part of Europe. Morning readings exceeding 60° at some Mediterranean stations, and exceeding 50° at the remainder, as well as in the west of France and many parts of England. Lowest, 25° to 30° over the Baltic Provinces, Poland, and central Russia, and below 40° over nearly the whole of Germany; 34° to 36° at most of the Irish stations. Rising later to between 50° and 57° over England and Ireland, and to between 55° and 60° over the northern parts of France. Exceeding 65° in the south of France and exceeding 70° in Sicily and Algeria.

Wind anticyclonic in direction and light to moderate in force over the eastern half of Europe, mainly Southerly in the west, but currents very complex over the United Kingdom, viz.:—Southerly over the greater part of England, Northerly over the Irish Channel and east of Ireland, Southerly in the north-west; calms prevalent over the west of Scotland and at Parsonstown. Varying greatly in Ireland all day, but very little change reported elsewhere.

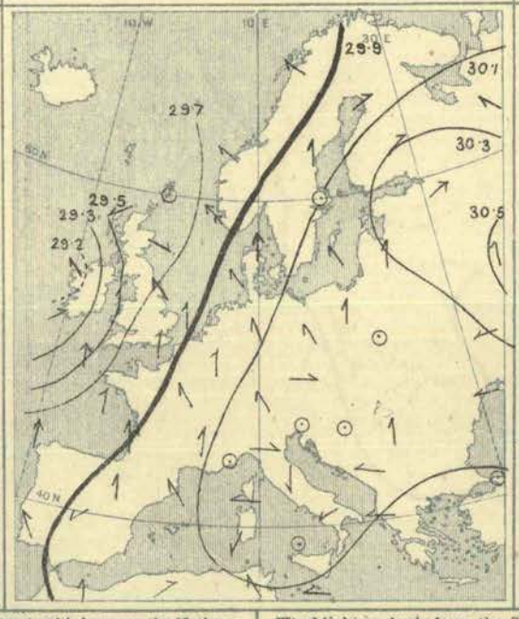
Barometer highest, 30·5 ins. and more to 30·3 ins. in an anticyclone over central Russia, and exceeding 30·0 ins. over all but the extreme western and north-western countries. Lowest, 29·7 ins. and less in the Shetlands and Hebrides, and in a long "V" extending thence in a southerly direction over the Irish Sea, Wales, and St. George's Channel. Latter system breaking up later and new well-marked depression approaching our south-western coasts from the south-south-westward.

Monday, 14th November.

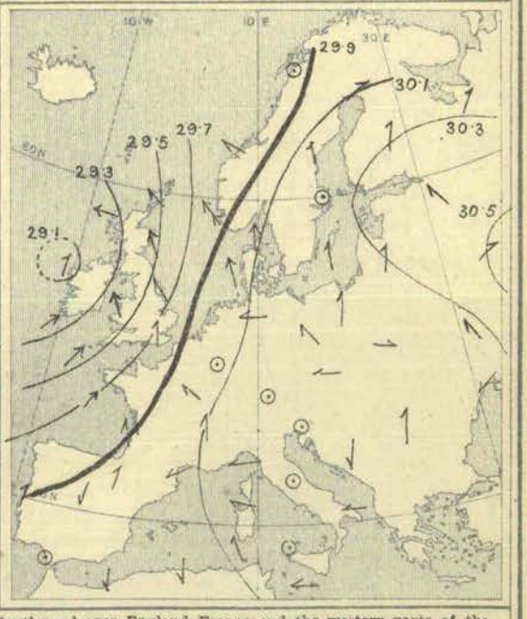
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather dull over the greater part of our Islands and the Continent, with *fog* over the Netherlands, Austria, and northern Italy, rain in Ireland, Wales, and the west of Scotland, and a thunderstorm at Toulon. Fine and bright in the south-east of England, the west of France, and the greater part of Italy and Algeria. Rain extending later to nearly all parts of the United Kingdom; fall heavy in the west and north of Scotland; lightning seen at Belmullet at night. Thunderstorm occurring at Toulon, and heavy rain (1·2 ins.) falling at Florence.

Temperature fallen a little over the greater part of northern and central Europe, but risen elsewhere—quickly in Ireland. Morning readings highest, 66° at Algiers, 65° at Corunna, and 64° at Sauguinaire, Nemours, and Malta; above 50° in most parts of Ireland and England. Lowest, 27° at Riga and Moscow, 28° at Memel, 29° at Warsaw, and 30° at Neufahrwasser, Berlin, Prague, and Buda-Pesth. Daily maxima over our Islands very high for time of year; thermometer exceeding 55° in many places, and reaching 60° at Oxford and Cambridge, and 62° in London. Exceeding 60° over France, and exceeding 70° in Sicily and the south of Spain. Succeeding night very warm over England.

Wind light to fresh from the Southward over England, France, and the western parts of the Spanish Peninsula; South-Westerly in the south of Ireland, South-Easterly in the north of that country; calm or light from the North-Westward in the east of Scotland. South-Easterly over Norway, Denmark, north Germany, and the Baltic, with a gale at Skudesnaes. South-Westerly in Finland, light Easterly in the south of Russia, and also in many parts of Austria, Italy, and the south of France. Southerly or South-Westerly in Algeria. Subsequently increasing to a moderate gale from the Southward in the west of our Islands; a strong gale from the same quarter experienced in the north and east of Scotland at night.

Barometer highest, 30·2 ins. to 30·5 ins. or a little more in a large anticyclone covering Russia, the Baltic, eastern Germany, and the greater part of Austria. Lowest, 29·2 ins. and less in a well-marked depression lying off the west of Ireland. Depression subsequently travelling in a North-North-Easterly direction along our extreme western coasts, and gradients becoming steep over nearly the whole of our Islands and the North Sea.

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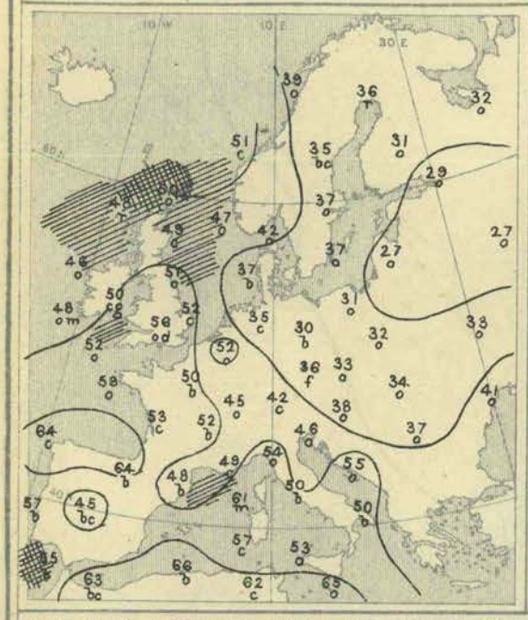
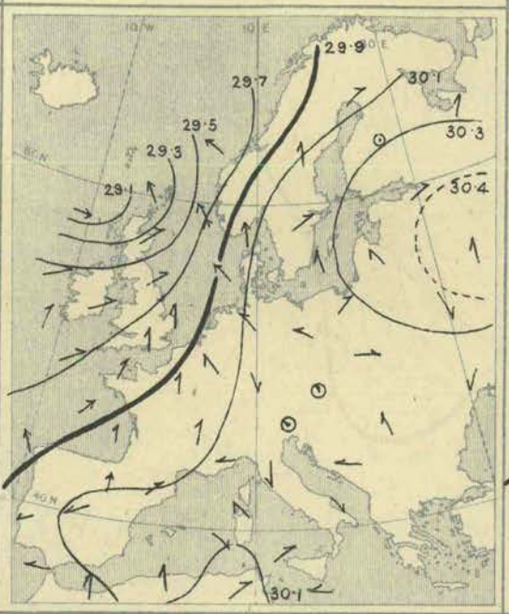
III.—SUMMARY OF WEATHER OVER EUROPE.

Tuesday, 15th November.

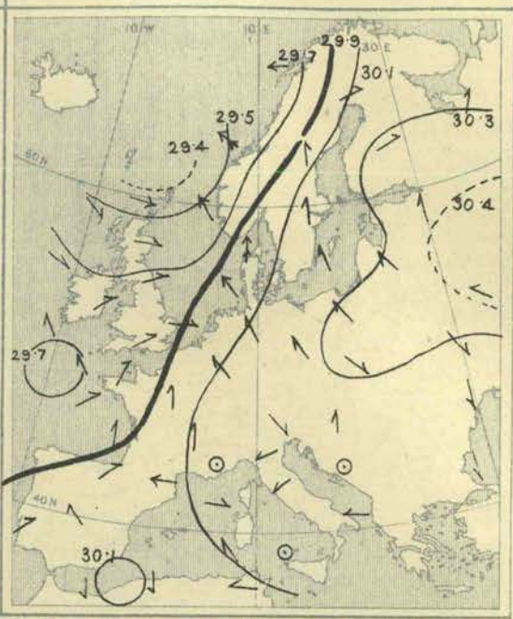
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather cloudy or dull over the greater part of our Islands and the Continent, with showers of drizzling rain in the south of England, and with steady rain at Leghorn and Kharkov. Fine in the east of Scotland, as well as in France, Spain, and central Italy. Heavy rain falling later in the south of England and the northwest of France, the largest amounts being 1·9 ins. at Brest, and 1·3 ins. at Ushant. Snow falling over northern Russia.

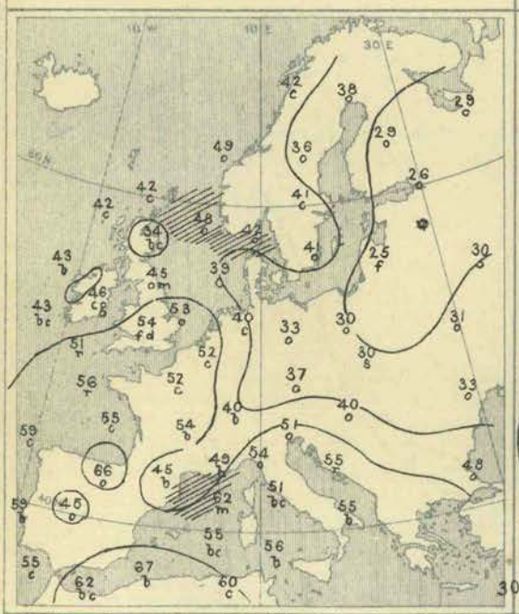
Temperature risen in the north of our Islands, but changed irregularly elsewhere. Morning readings highest, 66° at Algiers, 65° at Malta, 64° at Corunna and Biarritz, and 63° at Nemours; above 50° in many parts of England and France, and as high as 56° in London and at Dungeness. Lowest, 27° at Moscow and Riga, 29° at St. Petersburg, and 30° at Berlin and Swinemunde, below 40° at most of the Swedish, Russian, Danish, German, and Austrian stations. Daily maxima exceeding 55° in many parts of Great Britain, exceeding 60° in France, and reaching 70° or more in some parts of southern Europe.

Wind light to fresh from between South and West in our Islands and from South in France. Strong from the South-Eastward on the eastern shores of the North Sea, with a gale at Skudesnaes. Light from South or South-West over Sweden and northern Russia, and from North-East in the south of Russia. Variable over Germany and Austria; Northerly or North-Westerly in Italy; North-Easterly in Spain, Southerly in Algeria. Subsequently falling light in all parts of the United Kingdom, and becoming rather variable in the south-west. Increasing to a gale from South-East at Christiansund.

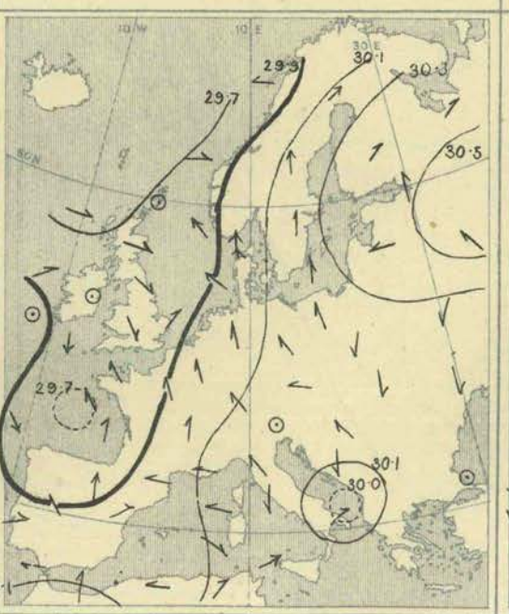
Barometer highest, 30·4 ins. and upwards over central Russia, 30·2 ins. and upwards over the whole of Russia, the Baltic, eastern Germany, Austria, Italy, and Switzerland. Lowest, 29·1 ins. and less in a depression lying off the north of Scotland. Gradients steep over Norway and the northern parts of our Islands and the North Sea. Depression subsequently travelling away to the northward, but shallow secondary disturbance appearing off our south-western coasts.

Wednesday, 16th November.

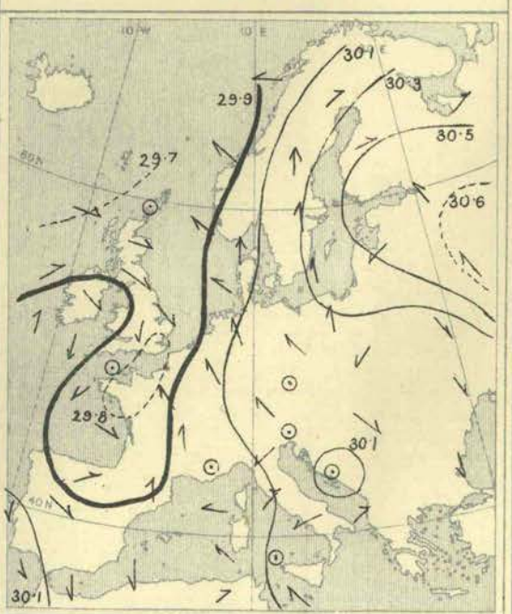
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather rainy over the south of England and north of France; dull over the greater part of Russia, Scandinavia, Austria, Germany, and northern Italy, with snow at Lemberg. Fine and bright in Ireland and Scotland, as well as in Algeria, the south of France, and the greater part of Spain and Italy. Heavy rain falling over the south-east of England during day, as well as over the west and north of France. Snow reported at Ulesborg.

Temperature fallen in most parts of our Islands—quickly in Ireland and Scotland; risen over France and southern Europe; changed irregularly elsewhere. Morning readings highest, 67° at Algiers, 66° at Biarritz, and 62° at Sanguinaire and Oran; above 55° on the coasts of France and Spain, and just reaching that point at some of the Channel stations. Lowest, 25° at Riga, and 26° at St. Petersburg and Memel; below the freezing point over nearly the whole of Russia, and very little above it in Scotland and central Ireland. Daily maxima exceeding 50° in the southern parts of our Islands only, and below 45° at some northern stations. Exceeding 60° over the greater part of southern Europe, the highest reading of all being 73° at Palermo.

Wind light from the Westward or South-Westward over the northern parts of the United Kingdom, but Northerly in the south-west, and Southerly in the south-east. Moderate from the Southward in France, and from the South-Eastward in Germany, strong from the latter quarter over Denmark and the south of Norway. Southerly over Sweden and northern Russia, Northerly in the south of Russia, variable over Spain, Italy, and Algeria. Subsequently backing to the Southward in the west of Ireland, but shifting to the Northward in the south-east of England.

Barometer highest, 30·6 ins. and upwards in an anticyclone lying over central Russia. Lowest, 29·7 ins. and less in a large area lying to the northward of our Islands, and also in a small depression lying off the Bay of Biscay; trough of low readings extending from the North Sea across the south-east of England to the Bay of Biscay and the north of Spain. Trough subsequently moving eastwards and filling up, barometer rising slightly in most parts of the United Kingdom, but inclined to fall again in the south of Ireland in evening.

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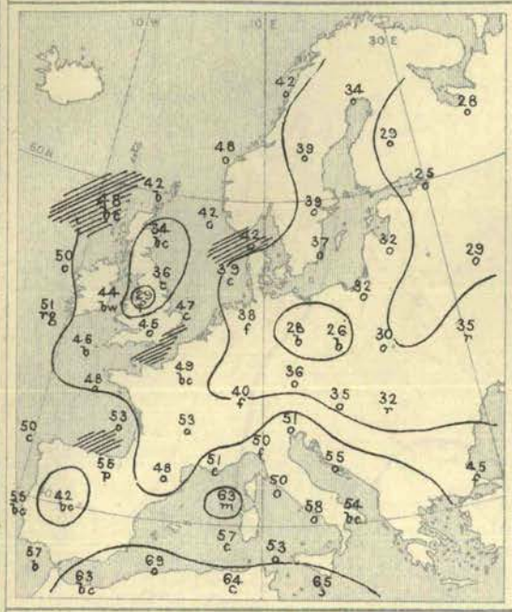
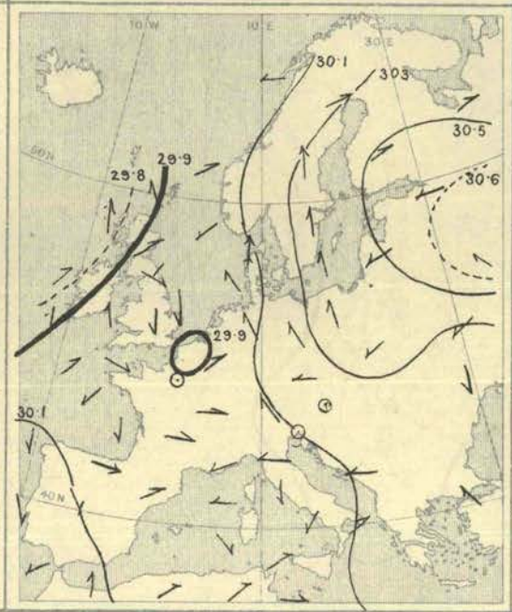
Thursday, 17th November.

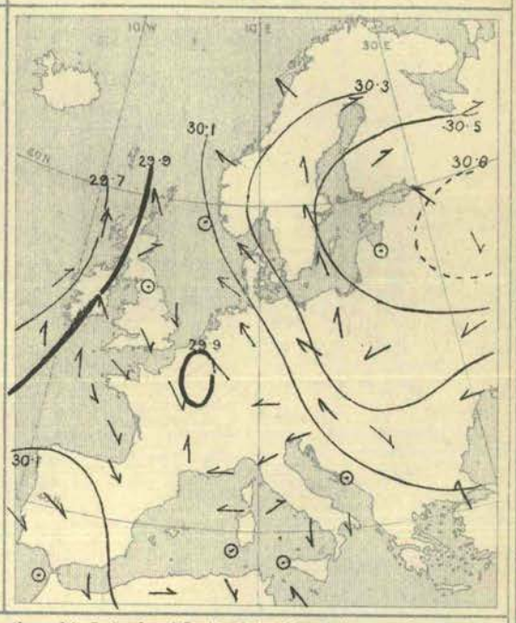
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather dull in the west of Ireland, with rain at Valencia Island; fine and bright in most other parts of our western and northern districts; dull and misty over the central and south-eastern parts of England, with rain at the North Foreland, as well as over the Netherlands. Cloudy in most other parts of the Continent, with fog in some places, but fine over north Germany and the greater part of Spain. Rain falling later in the western parts of our Islands generally, and also in the south of France.

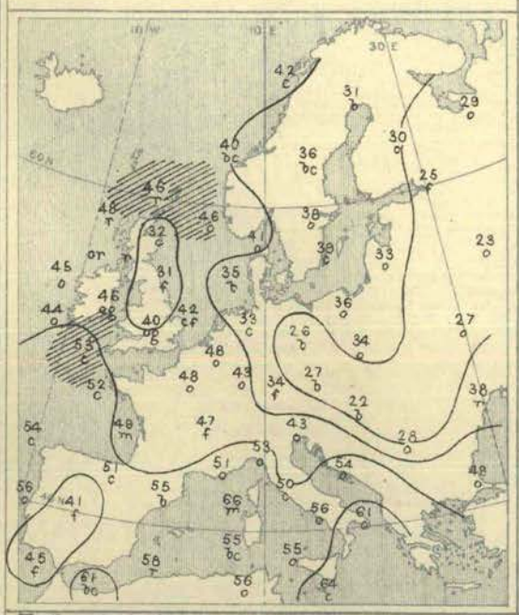
Temperature risen in Ireland and Scotland, but fallen in most other parts of Europe—briskly over the north of England. Morning readings highest, 64° at La Calle, and 63° at Sanguinaire, Oran, and Algiers; above 55° at most of the Mediterranean stations, and also on the coasts of Spain; above 50° in the south of Ireland. Lowest, (1) 25° at St. Petersburg, 26° at Breslau, and 28° at Archangel, Berlin, and Swinemunde; (2) 29° at Loughborough, and 30° at Leith. Daily maxima over our Islands below 50° in all but the western districts; thermometer exceeding 60° over southern Europe, the highest readings of all being 79° at Sanguinaire, and 68° at Cagliari and Malta.

Wind light to fresh from the Southward in Ireland and Scotland, but Northerly over the greater part of England, as well as in the west and north of France. South-Easterly over Denmark, Germany, the Baltic, and the south of Scandinavia, with a gale at the Scaw, South-Westerly over the northern parts of Sweden and Russia. Light from between North and East in the south of Russia, variable in Italy and Austria, North-Westerly in Spain, South-Westerly or Southerly in Algeria. Subsequently increasing to a moderate gale from the Southward in the Hebrides.

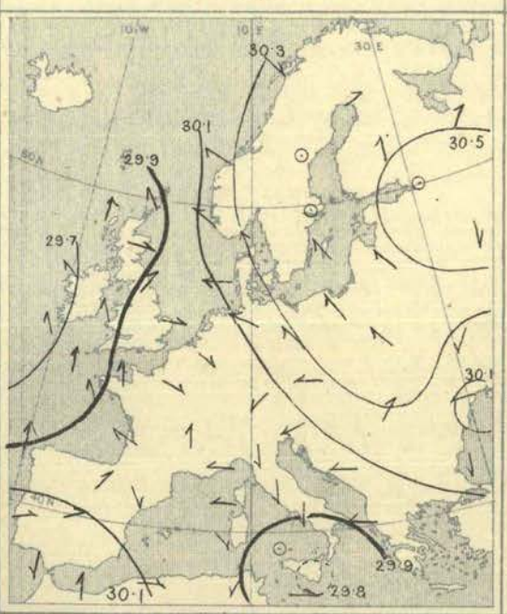
Barometer highest, 30·6 ins. and upwards over central Russia, 30·2 ins. and upwards in a large anticyclone covering the greater part of eastern, northern, and central Europe; 30·1 ins. and less in another system lying over Spain. Lowest, 29·8 ins. and less in a depression lying to the west of our Islands, 29·9 ins. and less in a shallow system over the Netherlands. Former disturbance subsequently spreading slowly northwards; latter system filling up gradually.

Friday, 18th November.

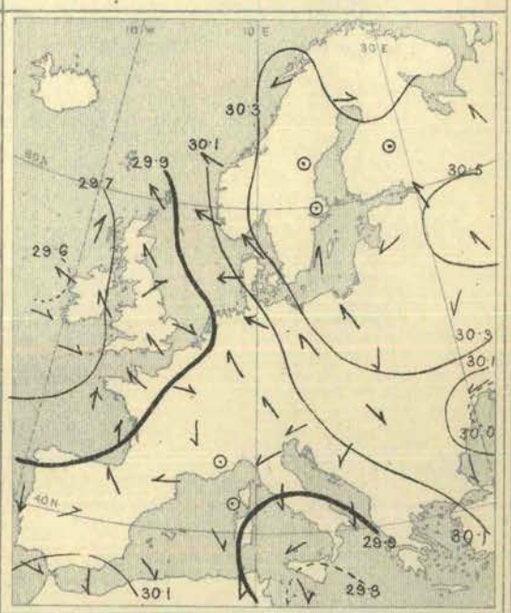
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather rainy in the west and north of Scotland, as well as over the northern and central parts of Ireland, dull in England, with fog over our northern and eastern counties. Fine in the east of Scotland, as well as at several of the Scandinavian, German, and Austrian stations; dull in most other parts of the Continent, with fog and rain over the Gulf of Finland. Rain falling later in the west and south-west of our Islands generally, as well as in France and the Netherlands—amounts heavy in some places. Snow falling at Kuopio and Kiev.

Temperature fallen in most places. Morning readings highest, 66° at Sanguinaire, 64° at Malta, and 61° at Brindisi and Nemours; above 50° in most parts of southern Europe, as well as at the mouth of the Channel. Lowest, 22° at Buda-Pesth, 23° at Moscow, and 25° at St. Petersburg, below the freezing point at most of the German, Austrian, and Russian stations, as well as in the north of England and the east of Scotland. Daily maxima below 50° in all the more eastern parts of our Islands, and below 40° in the north of England. Thermometer exceeding 60° over the greater part of southern Europe, the highest reading of all being 72° at Sanguinaire and Palermo.

Wind Southerly or South-Easterly in all the more western and northern parts of the United Kingdom, and also in the west of France; strong in force in the north of Scotland. Variable in the south-east of England, as well as in the Netherlands and central France, light from the Westward on our eastern coasts. South-Easterly over Norway, Denmark, Germany, and the Baltic, Southerly or South-Westerly over northern Russia, Easterly in the south of Russia, North-Easterly or Northerly in Italy, Westerly in Spain, variable in Algeria. Subsequently shifting to the Westward on our extreme south-west coasts, no important change occurring elsewhere.

Barometer highest, 30·5 ins. and upwards over the northern parts of Russia, 30·1 ins. and upwards in a large anticyclone covering the whole of northern, eastern, and central Europe, as well as in another system lying over Spain and Algeria. Lowest, 29·7 ins. and less in a depression extending from the Atlantic over the west of Ireland; shallow secondary disturbances lying over Holland and the southern parts of the North Sea. Depression in west subsequently spreading eastwards, and barometer falling in nearly all parts of the Kingdom.

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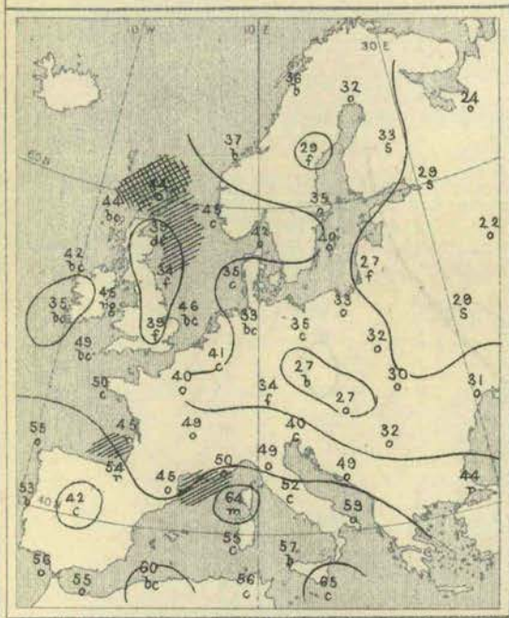
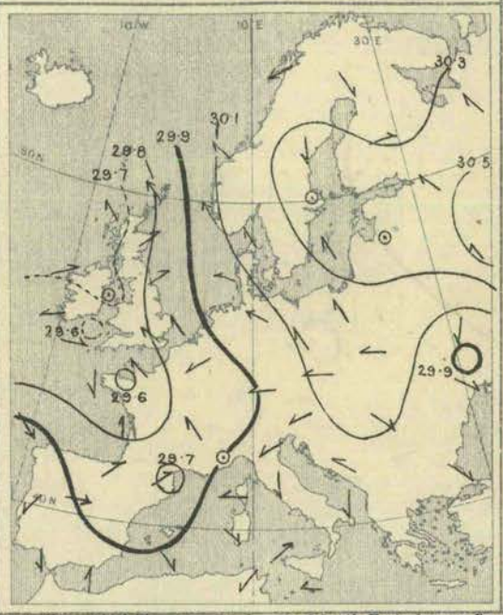
III.—SUMMARY OF WEATHER OVER EUROPE.

Saturday, 19th November.

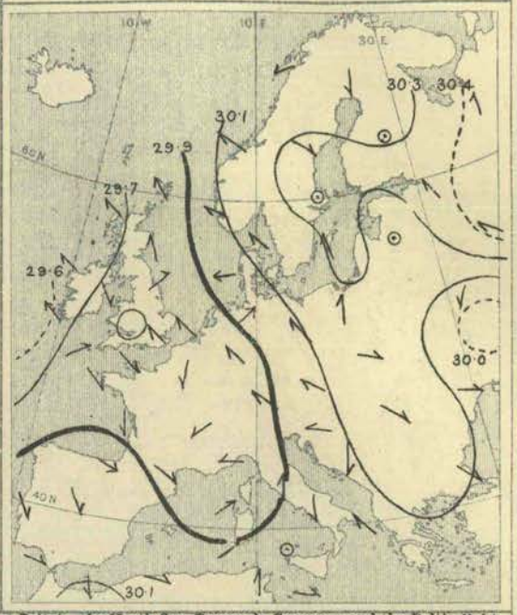
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather fine over the greater part of Ireland and Scotland, as well as in the west of Norway and at some of the south German and Algerian stations, dull in most other parts of Europe, with fog over central England and the Baltic Provinces, rain over Wales and the southern parts of France, and snow at Kuopio and St. Petersburg. Slight rain falling later in many parts of England, and large amounts over northern Italy and the south of France (1·5 ins. at Nice and 1·3 ins. at Marseilles). Thunderstorm occurring at Toulon.

Temperature risen slightly over the eastern parts of our Islands and the west of France, as well as in Italy and Austria, but fallen elsewhere. Morning readings highest, 65° at Malta, 64° at Sanguinaire, 60° at Algiers, and 59° at Brindisi; above 50° at most of the Mediterranean stations, and also on the coasts of Spain. Lowest, 23° at Moscow, 24° at Archangel, and 27° at Prague, Vienna, and Buda-Pesth; below the freezing point in many parts of northern and central Europe, and very little above it over the central parts of the United Kingdom. Subsequently rising to 50° or a little more on our south and south-west coasts, to 60° or more in many parts of southern Europe, and reaching 75° at Palermo.

Wind South-Easterly over Great Britain, the North Sea, Denmark, Germany, and the Baltic, light or moderate in force generally, but strong in Caithness and the west of Norway. Light South-Westerly in the north of Ireland; variable on our south-west coasts, and also in France; Northerly in Italy and the south of Spain. Light from the South-Eastward at most of the Russian stations, but Northerly in the north of Sweden. Subsequently shifting to the South-Eastward in the west of Ireland: no important change occurring elsewhere.

Barometer highest, 30·2 ins. to 30·5 ins. in an anticyclone lying over Russia, the Baltic, and the greater part of Scandinavia; 30·0 ins. and upwards in Algeria and the south of Spain. Lowest, 29·6 ins. and less in a shallow depression lying to the north-westward of our Islands; 29·7 ins. and less in very small disturbances lying over the Bristol Channel and the north-west of France. Latter systems subsequently moving eastwards; new and larger depression approaching the west of Ireland in evening.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During the whole of the week a large anticyclone lay over Russia and the neighbouring parts of northern, central, and eastern Europe, the lowest pressures being found, as a rule, in a series of cyclonic systems which moved in a northerly direction along our western coasts. The winds over the western countries were, therefore, mainly Southerly or South-Easterly, and on the 14th a fresh to strong gale from these quarters was experienced in Ireland and Scotland. Over southern and eastern Europe, however, considerable variability was shown; while on the 16th, when a second anticyclone of moderate height appeared temporarily off our south-west coasts, the wind over the southern parts of our Islands shifted to the North-Westward or Northward. Dull weather was prevalent over the greater part of our Islands and the Continent, with heavy falls of rain in various parts of the United Kingdom, France, and northern Italy, and with occasional snow in the north of Russia. Temperature was at first high in the more western countries, particularly over Ireland and England, but, as the week progressed, it fell to about its normal level for the time of year. Over Russia and the neighbouring countries, slight frost was reported almost every day.

BRIGHT SUNSHINE Values for the Week in addition to those found on page 272.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	5·1	?	9	?	EASTBOURNE	9·1	?	15	?
OSWALDKIRK (Yorkshire)	7·2	?	12	?	TENBY	11·6*	?	19*	?
WORKSOP	5·7	− 5·4	10	− 9	NEWQUAY	15·0	?	21	?
THURCASTON (Leicestershire)	5·9	− 5·6	10	− 9	TORQUAY	9·7*	?	16*	?
MARGATE	5·2	?	9	?	ARLEY COTTAGE (County Cavan)	9·8	?	17	?
WESTBOURNE (Sussex)	8·3*	?	14*	?	GUERNSEY	6·2*	?	10*	?
BRIGHTON	9·5	?	16	?					

The values at Westbourne, Tenby, Torquay and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.

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VOL. IX. No. 47.] *Third Series.* WEEK ENDING SATURDAY, 26TH NOVEMBER, 1892. [*Price 6d.* [*Annual subscription, post paid, £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years' observations (1871–90). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the ten years 1881-90. RAINFALL.—*The Mean amounts* are those for the corresponding periods in the twenty-five years 1866-90, but the *Mean numbers of Rainy Days* are those for the ten years 1881-90, only. BRIGHT SUNSHINE.—*The Mean values* employed are those for the corresponding periods in the ten years 1881-90.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 278.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1892. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	51	25	45·1	35·9	40·5	1 above.	9	− 5	24	+ 1	1713	−132	872	+244
	1. SCOTLAND, EAST	52	21	43·6	34·7	39·2	0 (average)	4	−12	27	+ 2	1979	−351	974	+303
	2. ENGLAND, N.E.	47	33	45·3	39·0	42·1	1 above.	13	− 5	8	− 9	2272*	−225	774	+215
	3. ENGLAND, EAST	50	30	45·0	36·9	41·0	0 (average)	8	−12	20	+ 3	2690	−200	839	+201
	4. MIDLAND COUNTIES	50	29	44·4	36·4	40·4	0 (average)	7	−14	21	+ 1	2648	−179	926	+282
	5. ENGLAND, SOUTH	53	31	47·7	38·8	43·3	1 above.	23	− 6	9	− 4	2993	−161	596	+131
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	52	29	45·3	37·7	41·5	0 (average)	9	−11	17	+ 4	2167	−245	708	+232
	7. ENGLAND, N.W.	51	31	45·8	38·6	42·2	0 (average)	16	− 5	10	− 2	2447	−177	630	+174
	8. ENGLAND, S.W.	54	28	50·4	43·1	46·8	3 above.	34	+ 1	0	− 6	2810	−149	464	+122
	9. IRELAND, NORTH	52	27	48·4	41·3	44·9	3 above.	23	0	2	−12	2389	−186	547	+133
	10. IRELAND, SOUTH	57	31	51·8	44·2	48·0	4 above.	42	+ 9	0	−10	2806	−126	465	+149
	— CHANNEL ISLANDS	56	39	53·4	47·0	50·2	3 above.	57	+ 8	0	− 1	3404	+ 15	164	+ 41

Rainfall.

	DISTRICTS. (See p. 278.)	For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1892. Number of Rainy Days.	Difference from Mean.	Total Fall.	Difference from Mean.
			10ths of In.	10ths of In.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	3	4	8 less.	230	+12	44·0	+ 0·3
	1. SCOTLAND, EAST	4	3	5 less.	184	+ 4	26·6	− 2·2
	2. ENGLAND, N.E.	4	2	5 less.	182	+15	24·4*	+ 0·3
	3. ENGLAND, EAST	2	3	3 less.	168	+ 4	25·9	+ 2·2
	4. MIDLAND COUNTIES	3	3	3 less.	161	− 1	22·3	− 3·8
	5. ENGLAND, SOUTH	3	4	3 less.	147	−10	22·7	− 2·6
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	2	6	7 less.	185	− 4	42·6	− 2·4
	7. ENGLAND, N.W.	3	4	4 less.	186	+11	34·0	+ 2·3
	8. ENGLAND, S.W.	4	6	5 less.	173	− 9	28·1	− 8·8
	9. IRELAND, NORTH	5	8	1 less.	207	+ 3	35·4	+ 2·0
	10. IRELAND, SOUTH	6	20	11 more.	181	− 6	36·5	+ 1·5
	— CHANNEL ISLANDS	5	4	6 less.	174	− 20	27·2	− 2·9

Bright Sunshine.

	DISTRICTS. (See p. 278.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1892. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	13	?	22	?	1096	− 30	26	− 1
	1. SCOTLAND, EAST	4	− 8	8	−19	1284	− 20	31	0
	2. ENGLAND, N.E.	0	−10	0	−18	1243	+ 42	30	+ 1
	3. ENGLAND, EAST	1	−13	1	−19	1470	+ 6	36	0
	4. MIDLAND COUNTIES	2	− 9	3	−15	1408	+101	34	+ 2
	5. ENGLAND, SOUTH	4	− 7	7	−11	1615	+198	39	+ 5
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	4	− 5	7	− 9	1388	+162	33	+ 2
	7. ENGLAND, N.W.	4	− 5	8	− 8	1375	+101	33	+ 2
	8. ENGLAND, S.W.	3	− 9	5	−17	1645	+115	40	+ 3
	9. IRELAND, NORTH	5	− 7	8	−14	1270	+ 80	31	+ 2
	10. IRELAND, SOUTH	8	− 4	13	−10	1402	+ 18	34	0
	— CHANNEL ISLANDS	10	− 4	16	− 7	1910	+113	46	+ 2

Bright Sunshine.—For several of the stations there are no "mean" values available, and the "difference from the mean" in some of the districts is consequently that of only a few of the stations.

General Remarks.

Weather during this period was exceedingly dull and gloomy in all parts of the Kingdom, excepting the extreme north of Scotland; a good deal of mist or fog was reported. Not much rain fell over Great Britain, but in the extreme south of Ireland the fall was very heavy and persistent.

Temperature scarcely differed from the normal over Scotland and the greater part of England, but in England S.W., the Channel Islands, and Ireland, it was 3° or 4° in excess. The highest of the maxima were recorded on the 26th, and ranged from 57° in England S. to 50° in England E. and the Midland Counties. The lowest of the minima were registered, as a rule, during the earlier part of the period, when the thermometer fell to 21° in Scotland E., 25° in Scotland N., and 27° in Ireland N., and to between 28° and 33° in most other districts; in the Channel Islands, however, the lowest reading was 39°.

Rainfall was more than twice the mean amount in Ireland S., and still larger in some parts of that district, but in all other districts there was a deficit.

Bright Sunshine exceeded the mean for the time of year in Scotland N.; in all other districts it was considerably less. The percentage of the possible duration ranged from 22 in Scotland N., and from 16 in the Channel Islands, to only 3 in the Midland Counties, 1 in England E., and to less than 0·5 in England N.E.

Barometer and Wind.—During nearly the whole of the period the barometer was lowest in the western parts of our area, and highest in the north-east, east, or south. No depressions passed over our Islands until towards the end of the week, when a "V" shaped system moved over the Kingdom in an easterly direction. Easterly and South-Easterly winds were mainly prevalent during the earlier part of the period, and blew with the force of a gale in the south of Ireland, but later on the wind became more variable, and at the end of the week was becoming South-Westerly or Westerly.

* This value has been altered owing to the receipt of further information.

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II.—DATA from which the SUMMARY on page 277 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°				Inches	Inches.				
0. SCOTLAND, N.	Sumburgh Head	47	34	45·0	38·0	41·5	+ 0·9	8	16	5	0·28	−0·70	*	*	*	*
	Stornoway	50	27	47·1	34·9	41·0	+ 1·0	14	28	3	0·61	−0·51	19·6	+12·1	39	+23
	Wick	48	36	45·9	40·3	43·1	+ 3·3	15	5	4	0·34	−0·33	*	*	*	*
	Lairg ℌ	51	25	43·4	34·6	39·0	+ 1·0	4	27	5	0·48	−0·40	*	*	*	*
	Glencarron ℌ	50	28	43·5	33·5	38·7	− 0·1	5	31	2	0·24	−2·00	*	*	*	*
	Fort Augustus ℌ	50	27	44·9	34·1	39·5	− 0·2	8	30	3	0·44	−0·59	7·5	?	14	?
	Fort William ℌ	50	29	45·6	36·2	40·9	+ 0·4	10	23	2	0·55	−1·29	12·5	?	24	?
1. SCOTLAND, E.	Nairn	52	21	45·0	29·4	37·2	− 2·3	8	46	3	0·12	−0·40	*	*	*	*
	Aberdeen	47	31	44·4	38·9	41·7	+ 1·7	7	13	3	0·22	−0·48	1·7	− 9·0	3	−19
	Braemar ℌ	47	25	41·6	33·3	37·5	+ 1·0	0	32	4	0·15	−0·74	1·3†	?†	3†	?†
	Ochtertyre ℌ	48	32	42·7	36·7	39·7	+ 0·9	2	19	4	0·43	−0·57	*	*	*	*
	Leith	48	32	45·4	35·3	40·4	− 0·9	10	26	3	0·41	−0·07	*	*	*	*
	Marchmont ℌ	44	27	42·3	34·4	38·4	− 0·5	1	27	5	0·22	−0·57	6·0	?	11	?
2. ENGLAND, N.E.	Alnwick Castle	46	35	44·6	39·1	41·9	+ 1·6	7	12	3	0·15	−0·61	*	*	*	*
	Durham	47	35	44·4	37·9	41·2	+ 1·7	7	16	5	0·15	−0·57	0·2	−11·3	0	−22
	Shields	47	33	46·0	38·0	42·0	+ 0·8	11	11	3	0·20	−0·47	*	*	*	*
	Scarborough ℌ	47	37	45·6	39·6	42·6	+ 0·8	14	7	3	0·05	−0·63	*	*	*	*
	York	47	33	45·6	38·1	41·9	+ 1·4	10	17	4	0·22	−0·28	0·0	− 9·3	0	−15
	Spurn Head	47	37	45·3	41·1	43·2	+ 1·2	12	3	3	0·15	−0·39	*	*	*	*
3. ENGLAND, E.	Hillington ℌ	48	34	44·5	37·2	40·9	+ 0·8	7	19	1	0·38	−0·25	1·8	− 3·6	3	−16
	Yarmouth	49	36	45·6	39·6	42·6	+ 0·8	14	7	2	0·30	−0·37	*	*	*	*
	Geldeston	50	33	45·9	38·0	42·0	+ 0·5	11	11	2	0·33	−0·31	0·4	−12·7	1	−22
	Cambridge	48	31	44·7	35·0	39·9	− 0·6	8	27	2	0·31	−0·15				
	Rothamsted	49	30	44·2	34·6	39·4	− 0·9	6	27	5	0·33	−0·29	0·1	?	0	?
4. MIDLAND COUNTIES	Rawtry (Hesley Hall)	47	29	44·6	35·3	40·0	− 0·3	7	26	2	0·20	−0·30	*	*	*	*
	Loughborough	48	36	44·7	37·3	41·0	+ 0·2	8	18	2	0·23	−0·27	*	*	*	*
	Stamford (Ketton Hall)	48	30	44·1	35·1	39·6	− 1·0	6	26	2	0·20	−0·40	*	*	*	*
	Cheadle ℌ	46	35	43·3	37·7	40·5	+ 0·7	4	16	3	0·34	−0·36	*	*	*	*
	Churchstoke ℌ	49	37	44·2	38·4	41·3	+ 1·0	6	14	3	0·30	−0·50	4·6	− 5·2	8	−10
	Hereford ℌ	49	30	44·4	35·4	39·9	− 1·7	7	25	4	0·41	−0·19	*	*	*	*
	Cirencester	49	31	45·0	35·3	40·2	+ 0·2	8	26	5	0·49	−0·21	2·3	− 8·4	4	−15
	Oxford	50	31	44·7	36·4	40·6	− 0·6	8	22	3	0·38	−0·17	0·1	−10·1	0	−19
5. ENGLAND, S.	London	51	35	46·4	36·9	41·7	− 0·3	12	21	3	0·37	−0·16	0·6†	− 6·2†	1†	−10†
	North Foreland	50	35	46·7	39·0	42·9	− 0·1	19	8	1	0·25	?	*	*	*	*
	Strathfield Turgiss ℌ	51	31	45·2	35·4	40·3	− 0·7	9	25	5	0·35	−0·24	*	*	*	*
	Dungeness	52	36	47·9	40·6	44·3	+ 0·8	22	4	1	0·46	−0·31	*	*	*	*
	Hastings (St. Leonards)	51	37	48·6	39·8	44·2	+ 0·8	25	6	3	0·51	−0·22	5·2	− 7·9	9	−14
	Southampton	53	34	48·9	38·8	43·9	+ 0·9	27	9	4	0·32	−0·39	4·3	− 5·9	7	−12
	Hurst Castle	53	37	50·4	41·6	46·0	+ 1·9	30	1	4	0·23	−0·45	*	*	*	*
	Stowell ℌ	52	31	47·7	38·2	43·0	+ 1·2	23	11	5	0·40	?	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	52	34	47·0	37·4	42·2	+ 0·9	21	13	2	0·76	−1·44	*	*	*	*
	Glasgow	46	37	44·0	38·5	41·3	+ 1·1	6	14	2	0·72	−0·15	1·6	− 3·5	3	− 6
	Ardrossan	48	31	44·6	34·9	39·8	− 2·4	7	27	2	0·55	−0·35	*	*	*	*
	Glenlee ℌ	47	29	43·4	35·5	39·5	− 0·3	4	24	2	0·32	−1·18	*	*	*	*
	Douglas (Isle of Man)	51	36	47·5	42·3	44·9	+ 1·9	20	0	3	0·82	−0·29	6·0	− 6·7	11	−11
7. ENGLAND, N.W.	Newton Reigny	46	31	44·0	33·9	39·0	− 1·0	6	30	2	0·15	−0·65	5·5	− 3·6	10	− 7
	Stonyhurst	47	33	44·2	38·4	41·3	+ 0·5	6	14	2	0·45	−0·63	1·6	− 7·4	3	−13
	Blackpool ℌ	48	37	45·4	38·2	41·8	+ 0·3	10	16	3	0·42	−0·38	2·3	− 6·0	4	−12
	Manchester	47	38	45·2	39·5	42·4	+ 1·6	13	7	2	0·67	−0·12	*	*	*	*
	Liverpool Obsy. (Bidston)	48	38	45·3	39·4	42·4	0·0	14	7	4	0·45	−0·22	*	*	*	*
	Llandudno ℌ	50	36	47·3	40·3	43·8	− 0·2	20	5	2	0·31	−0·51	7·5	− 1·3	13	− 2
	Holyhead	51	37	49·0	40·3	44·7	− 0·5	26	5	3	0·64	−0·24	*	*	*	*
8. ENGLAND, S.W.	Llandovery	50	28	48·0	37·3	42·7	+ 0·7	25	13	5	0·46	−0·70	*	*	*	*
	Pembroke	52	43	51·0	46·0	48·5	+ 2·6	46	0	5	0·62	−0·33	2·8	− 9·2	5	−16
	Arlington (N. Devon)	50	31	48·3	40·9	44·6	+ 2·0	23	3	4	0·78	−0·67	*	*	*	*
	Cullompton ℌ	53	28	50·3	40·2	45·3	+ 2·6	31	5	4	0·44	−0·43	0·6	− 8·4	1	−15
	Falmouth	54	39	52·4	47·0	49·7	+ 3·0	54	0	5	1·14	−0·11	1·0	−13·0	2	−21
	Plymouth	53	34	52·0	44·9	48·5	+ 3·3	46	0	4	0·28	−0·50	?	?	?	?
	Prawle Point	52	39	50·9	45·7	48·3	+ 3·1	44	0	4	0·33	−0·47	*	*	*	*
9. IRELAND, N.	Malin Head	50	36	47·1	40·7	43·9	+ 1·9	19	4	3	1·01	?	*	*	*	*
	Londonderry	51	29	48·6	40·1	44·4	+ 2·8	25	5	4	0·91	−0·08	*	*	*	*
	Edenfel (Omagh)	49	28	46·9	39·0	43·0	+ 2·5	20	8	5	0·83	−0·02	*	*	*	*
	Mullaghmore	52	36	50·3	43·3	46·8	+ 2·3	34	0	5	0·63	−0·45	*	*	*	*
	Belmullet	52	37	50·4	43·6	47·0	+ 1·2	35	0	7	1·76	?	*	*	*	*
	Markree Castle	50	33	48·7	41·6	45·2	+ 3·7	24	1	7	0·60	−0·19	4·5	6·2	8	−12
	Brookeborough	50	31	48·5	40·8	44·7	+ 4·5	24	3	5	0·70	−0·32	*	*	*	*
	Armagh	50	27	48·0	39·3	43·7	+ 3·0	23	8	5	0·64	−0·06	2·8	− 9·3	5	−17
	Donaghadee	50	43	48·1	44·0	46·1	+ 3·3	29	0	3	0·41	−0·33	*	*	*	*
	Edgeworthstown	50	38	47·7	40·6	44·2	+ 3·0	21	4	6	0·60	−0·25	*	*	*	*
10. IRELAND, S.	Dublin	52	34	50·3	43·6	47·0	+ 3·2	35	0	4	0·46	−0·16	7·0	− 7·8	12	−14
	Parsonstown	54	32	50·6	41·4	46·0	+ 4·0	31	2	5	0·57	−0·13	7·6	− 5·1	13	−10
	Kilkenny	52	31	49·9	42·9	46·4	+ 2·9	31	0	7	0·97	+0·33	*	*	*	*
	Waterford	53	32	51·3	43·6	47·5	+ 2·5	39	0	5	0·68	−0·26	*	*	*	*
	Roche's Point	53	37	52·1	46·0	49·1	+ 3·5	50	0	7	4·16	+3·03	*	*	*	*
	Valencia	57	34	54·6	47·1	50·9	+ 4·1	62	0	7	3·26	+2·03	8·2	− 3·4	14	− 7
	Killarney	55	37	53·4	44·0	48·7	+ 4·2	47	0	7	3·87	?	*	*	*	*
	Foynes	54	38	52·1	44·6	48·4	+ 4·7	45	0	6	1·62	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	56	41	54·1	47·9	51·0	+ 2·5	63	0	6	0·32	−0·61	*	*	*	*
	Jersey	55	39	52·6	46·0	49·3	+ 2·4	51	0	4	0·41	−0·56	9·4	− 3·4	15	− 7

Stations marked ℌ are in connection with the Royal Meteorological Society, and those marked ℌ with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

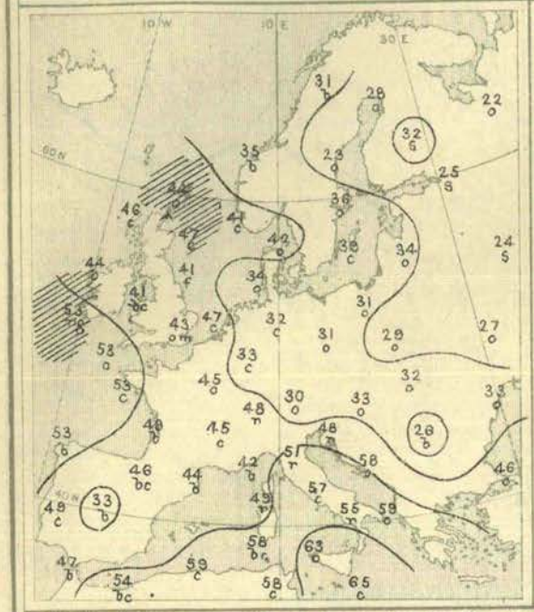
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory and the Meteorological Office, Victoria Street. For additional Reports of Sunshine see last page.

III.—SUMMARY OF WEATHER OVER EUROPE.

Sunday, 20th November.

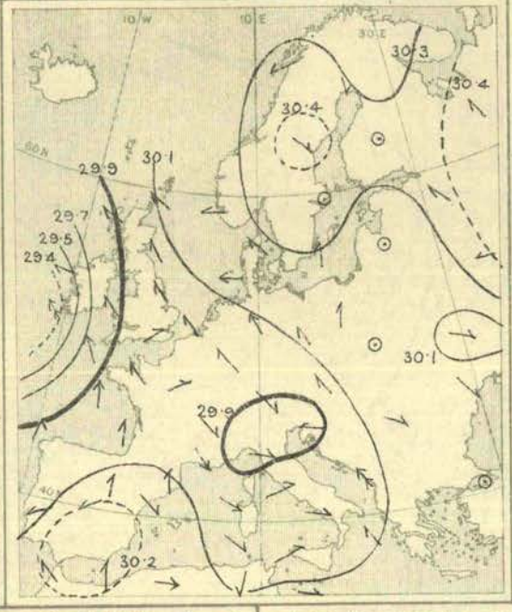
Temperature and Weather.

8 a.m.

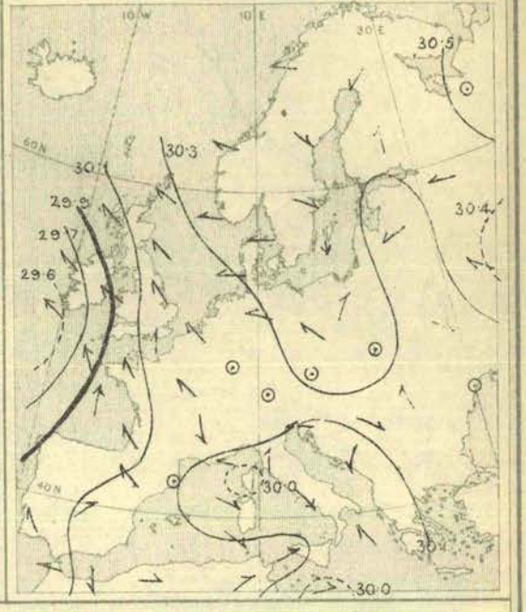


Barometer and Wind.

8 a.m.



6 p.m.



Weather cloudy or overcast in most parts of our Islands and the Continent, with fog, rain, and gloom at many of the English stations, as well as at Valencia Island; rain over the greater part of Italy, snow at Kuopio, St. Petersburg, and Moscow. Fine and bright over Spain and the south of France, as well as at several of the Algerian stations. Rain later over southern Europe and in the west and extreme north of our Islands, heavily in the south of Ireland (1·8 ins. and Roche's Point), but sky clearing over the southern parts of England.

Temperature risen over the greater part of the United Kingdom, as well as in Austria and Italy, fallen in most other countries. Morning readings highest, 65° at Malta, 63° at Palermo; above 50° at most of the Italian and Mediterranean stations, as well as the south of Ireland and north-west of France. Lowest, 22° at Archangel, 24° at Moscow, 25° at St. Petersburg, and 27° at Kiev; below the freezing point in many parts of Sweden, Russia, Germany, and Austria. Rising later to 50° or more at several of our western stations and at Nairn, to 60° or more in the south of France, and to 70° and more on the southern shores of the Mediterranean. Sharp frost at night in parts of central England.

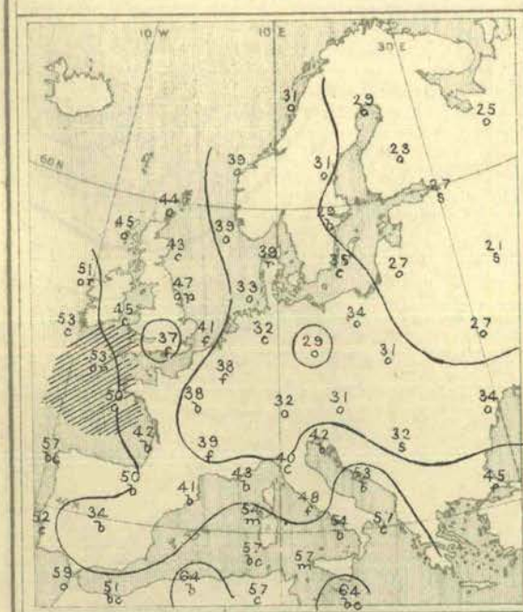
Wind South-Easterly in our Islands; light or moderate in force at all our more northern and eastern stations, but strong to a gale in the south-west; moderate to fresh from the Southward over the Bay of Biscay. South-Easterly in Denmark and Germany, and Easterly in Norway; light North-Westerly over the Gulfs of Finland and Bothnia; variable in Russia and Austria, moderate from South and West in Italy. Variable over the central and southern parts of France, and also in Algeria, but Easterly in Spain. No important change occurring later, but gale in South-West tending to subside.

Barometer highest, 30·2 ins. to 30·4 ins. and upward in an anticyclone covering the whole of Russia and northern Europe; 30·2 ins. and upwards in another system lying over the southern parts of Spain. Lowest, 29·4 ins. and less in a depression lying off the south-west of Ireland; 29·9 ins. and less in a shallow system lying over northern Italy. Irish depression subsequently moving westwards to the Atlantic and northern anticyclone spreading out in a Westerly direction.

Monday, 21st November.

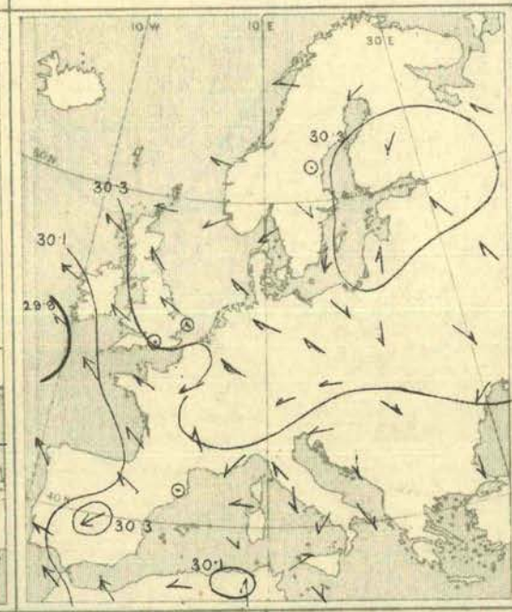
Temperature and Weather.

8 a.m.

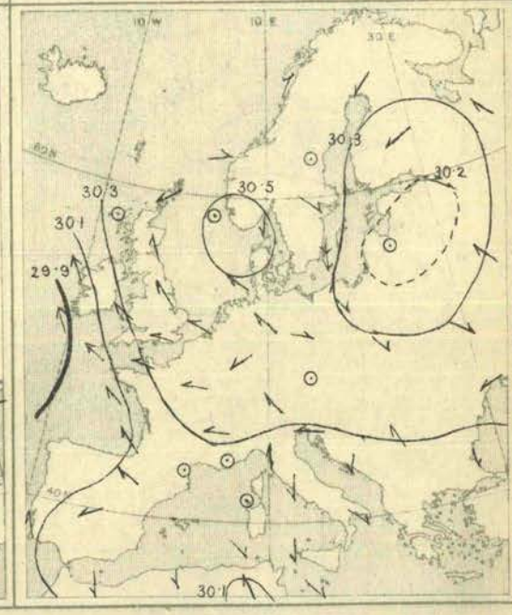


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning, fine and bright over Algeria, the Peninsula, and a great deal of France, as well as at several stations over the southern half of England and at Stockholm; cloudy or overcast elsewhere, foggy in the south-east of England, rainy in the south of Ireland and at the Scaw, snow at Moscow and over the Gulf of Finland. Further heavy falls of rain in the south of Ireland later, slight showers in the northern parts of Ireland and England, and in the north-west of Norway. Fog clearing in London at night.

Temperature very irregularly distributed. Morning readings highest, 64° at Malta, 56° and more at nearly all the Mediterranean stations, as well as on the coast of Portugal, the south-western coasts of the British Isles, and exceeding 40° at most of the stations in our Islands. Lowest, (1) 21° at Moscow, 23° at Kuopio, 25° at Archangel, 27° at Kiev, 29° at Berlin, 30° at Cracow and Breslau; (2) 30° at Clermont; (3) 31° at Oxford, 32° at Cambridge. Failing to reach 50° in the north and east of the British Islands during the day, but touching 55° at Valencia (Ireland), 57° at Lorient, and 62° at Lisbon.

Wind (1) Northerly (North-North-East to North-West) over Sweden and the Baltic, South-Easterly over central Russia and Finland, light to moderate in force. (2) South-Easterly over the United Kingdom and the Atlantic coasts of Europe generally, calm over England, but blowing a gale at Roche's Point and Corunna. (3) Very variable over central Europe and the Mediterranean. Little change later.

Barometer highest, 30·4 ins. and more to 30·3 ins. over Scandinavia, the North Sea, the eastern parts of Great Britain and France and over Germany; (2) exceeding 30·3 ins. over central Spain. Lowest, 29·9 ins. and less off the south-west of Ireland, 30·2 ins. and less over the Gulf of Riga and the Baltic Provinces; 30·1 ins. and less near La Calle. Rising slightly over the North Sea and British Islands later.

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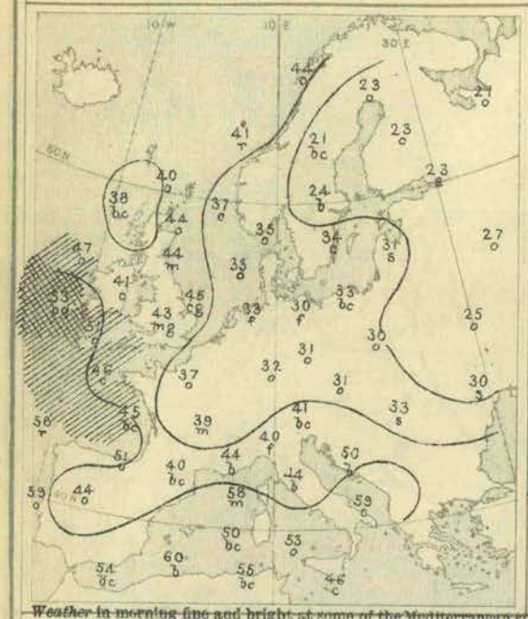
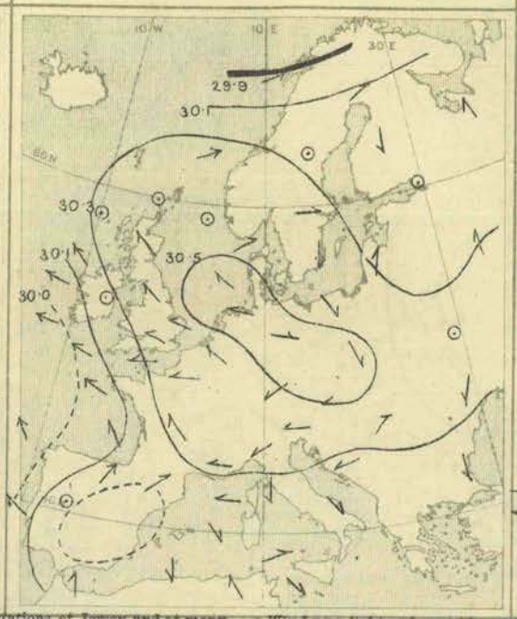
III.—SUMMARY OF WEATHER OVER EUROPE.

Tuesday, 22nd November.

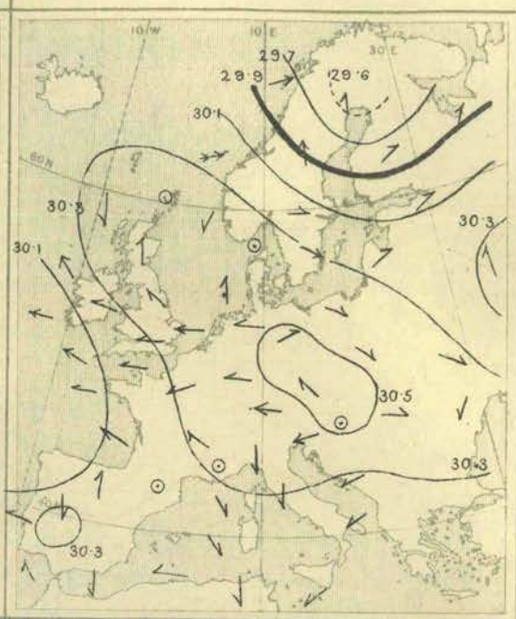
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright at some of the Mediterranean stations, at Jersey, and at many of the Scotch stations, but, as a whole, dull and very gloomy elsewhere; fog or haze in many parts of the Netherlands and England, rain in the south of Ireland and west of Norway, and snow at St. Petersburg, Riga, Odessa, and Hermanstadt. Further and considerable falls of rain in the south of Ireland during the day, as well as at Christiansund, and snow locally in several parts of northern Europe. Gloomy weather continuing over England.

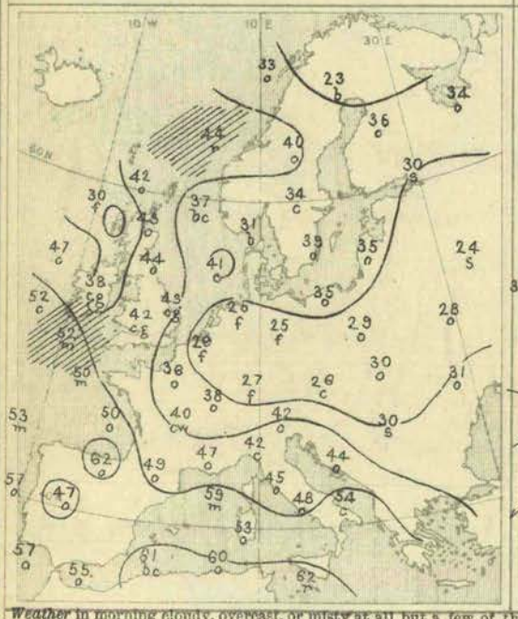
Temperature changing little and irregularly. Morning readings highest (between 50° and 60°) over the greater part of the Mediterranean and the coast of Portugal, and 50° to 52° on our own extreme south-west coasts. Lowest, 21° at Archangel and Hernösand, 23° to 25° over Finland, and 25° to 28° over central and southern Russia; 27° at Berlin and Breslau, 29° at Buda-Pesth, 30° at Warsaw and Lemberg; 25° at Clermont, 28° at Gap, 34° at Nairn, 38° at Stornoway and Ardrossan. Not exceeding 50° in our Islands later (except in the south-west of Ireland and at Scilly), but rising to 57° at Rochefort and Nice, 66° at Biarritz and Lisbon. Succeeding night very cold in north of Scotland.

Wind very light and variable over Russia, central Europe, and the Mediterranean, but Easterly to South-Easterly over the British Islands, and the western parts of France and the Peninsula (strong to a gale at the most western stations), and Westerly, strong to a gale, in the north-west of Norway. Gale in latter district increasing later, that in south of Ireland dying down gradually.

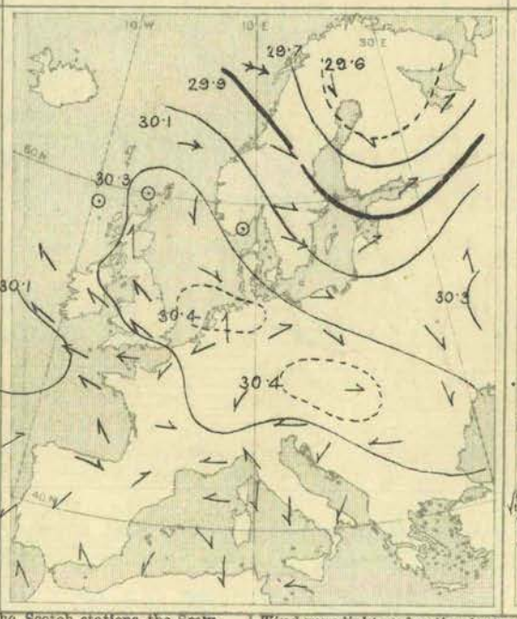
Barometer highest, 30·5 ins. and more to 30·8 ins., in a large anticyclone covering the whole of the North Sea and central Europe, and 30·3 ins. and more in another over the east of Spain. Lowest, 29·9 ins. and less over Lapland, 30·0 ins. and less off the south-west of Ireland and the Portuguese coast. Shallow secondary disturbances found over the northern half of Russia. Falling decidedly over northern Europe during the day, changing little and irregularly over the British Islands and central Europe.

Wednesday, 23rd November.

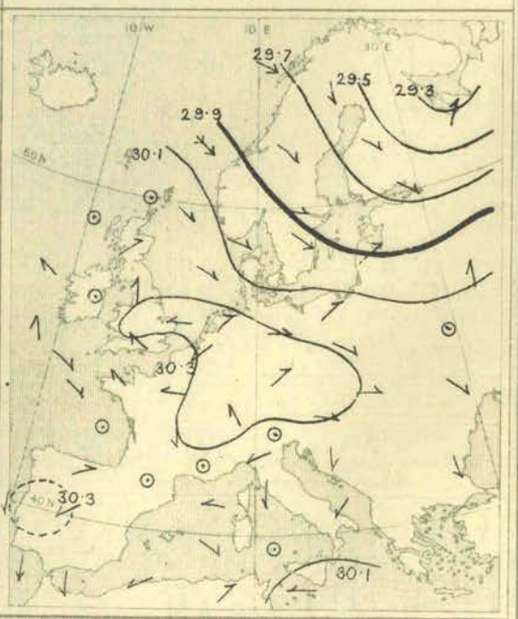
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy, overcast, or misty at all but a few of the Scotch stations, the Scaw, and Haparanda; very gloomy, as a whole, elsewhere. Rainy at some of our western stations, and at Christiansund and Memel, snow falling at St. Petersburg and Moscow. Much fog in Austria and the north-west of Germany. Rain later over the south-western and southern parts of the British Islands and in Brittany, but amounts small, except at Roche's Point, as well as in the extreme south-west of France.

Temperature not much changed, beyond a rise on the southern side of the Mediterranean. Morning readings, 23° at Haparanda, 24° at Moscow, 25° at Kharkov, 28° at Breslau and Buda-Pesth, and considerably below the freezing point over Russia and central Europe; higher in the west, and as high as 50° to 52° on our extreme south-west coasts, 53° to 57° on the western coasts of the Peninsula, and 60° to 62° on the Algerian coast and at Malta. Rising later to between 50° and 57° on our south-west coasts and in the west of France, and touching 70° in Spain, but only reaching 44° and 46° on the north and east coasts of Scotland.

Wind very light and anticyclonic over central Europe and the south of Russia, light and variable over the Mediterranean, Easterly to South-Easterly over France, England, and Ireland, Southerly in the east of Scotland, and Westerly to North-Westerly over northern Europe. Becoming light and variable over the British Isles later, but North-Westerly over the whole of Scandinavia, North-Easterly over the eastern parts of the Mediterranean.

Barometer highest, 30·4 ins. and more to 30·8 ins. over the whole of south-eastern and central Europe, the North Sea, and countries adjacent. Lowest, 29·6 ins. and less over the White Sea and north of Finland; 30·1 ins. and less off the south-west coasts of the British Isles, 30·2 ins. and less over Tunis, Malta, Sicily, and the south of Italy. Falling over northern Europe later, changing little and irregularly over the British Islands.

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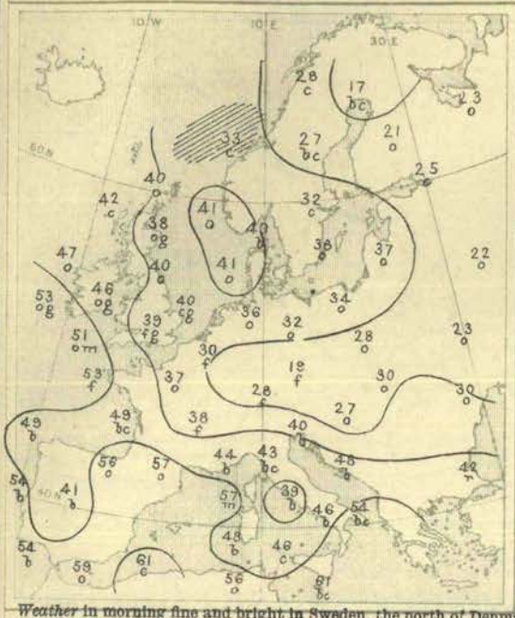
Thursday, 24th November.

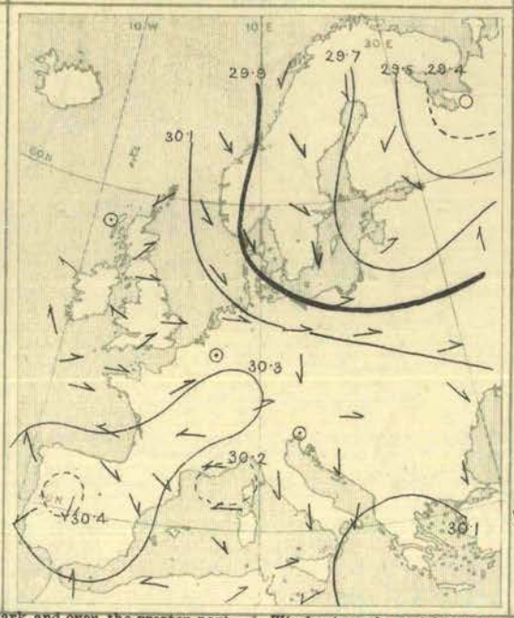
Temperature and Weather. 8 a.m.



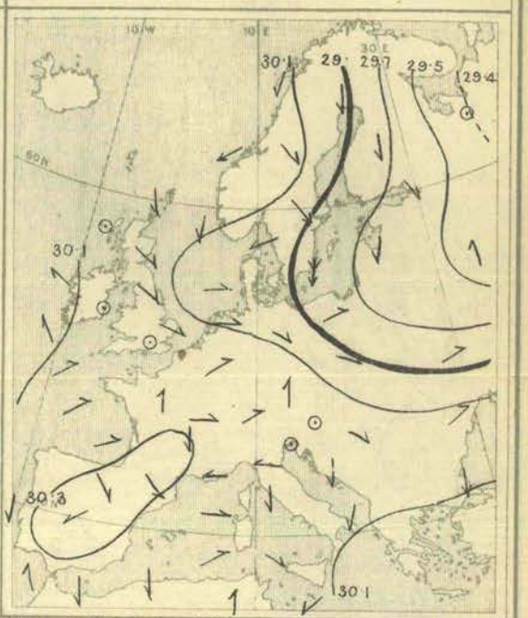
Weather in morning fine and bright in Sweden, the north of Denmark, and over the greater part of southern Europe, as well as in the south of Russia; cloudy or overcast elsewhere, and very dull and foggy in many parts of the British Islands and central Europe; still rainy in the south-east of Ireland. Rain later at many of our own stations, France, and in a few places over Germany and Scandinavia, but amounts small, except in the west of Ireland and at Pembroke. Fog prevailing in many places during the day.

Temperature changing irregularly. Morning readings 61° at Malta and Algiers, exceeding 50° on the southern side of the Mediterranean, in the west and north of the Iberian Peninsula, and in the extreme south-west of the British Isles; much lower elsewhere. Below 40° at some stations in Great Britain, as well as over the inland parts of Italy, and lowest of all, (1) 16° at Uleaborg, 21° at Kuopio, 22° at Moscow, 23° at Archangel, Kharkov, and Kiev, 30° at Lemberg; (2) 19° at Prague and Vienna, 22° at Breslau, 23° at Münster. Rising later to 50° and more in the west and south-west of our Islands, and to between 57° and 59° in the west of France, but not touching 45° in Scotland; rising to 60° and more over southern Italy, and the extreme south of France, and to 70° at Algiers.

Barometer and Wind. 8 a.m.



6 p.m.

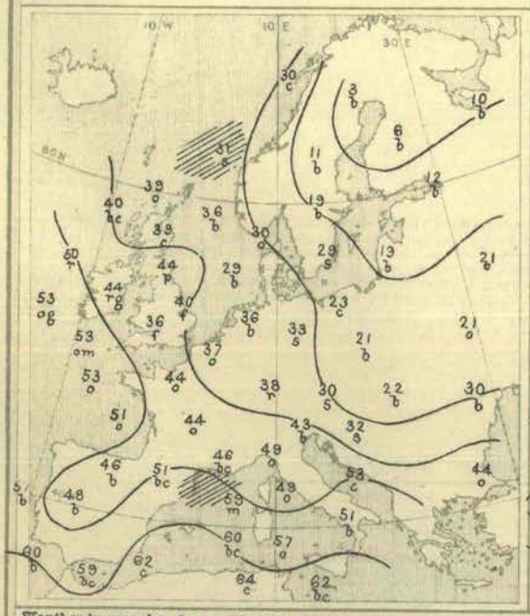


Wind extremely variable over western, southern, and central Europe, but chiefly light from the Northward over Lapland and Finland, moderate to strong from North-West over Scandinavia, Westerly over north Germany, Poland, and Hungary. Shifting to North-East in the north-west of Norway later, and blowing a hard gale from North-North-East at Wisby, but falling calm over England.

Barometer highest, 30·4 ins. at Madrid, and between that value and 30·2 ins. in a large area covering Spain, the Bay of Biscay, France, central and south-eastern Europe, and the greater part of the Mediterranean. Lowest, 29·3 ins. over the White Sea, and rather below 30·1 ins. over Greece and also off the extreme west of Ireland. Rising over northern Europe later, as the northern depression moved south-eastward, falling slightly at the Irish stations, and over western Europe generally.

Friday, 25th November.

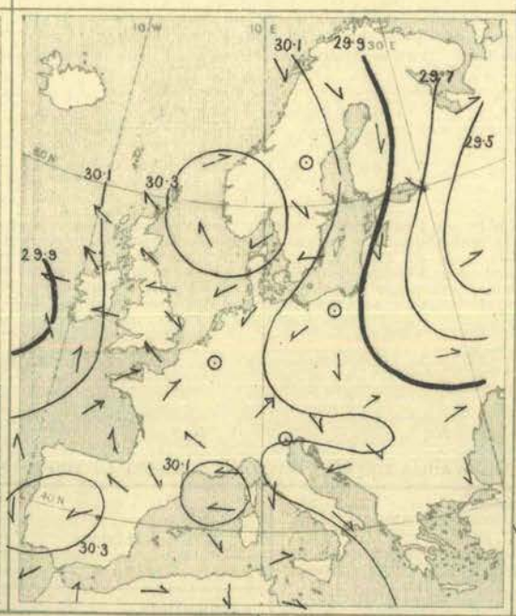
Temperature and Weather. 8 a.m.



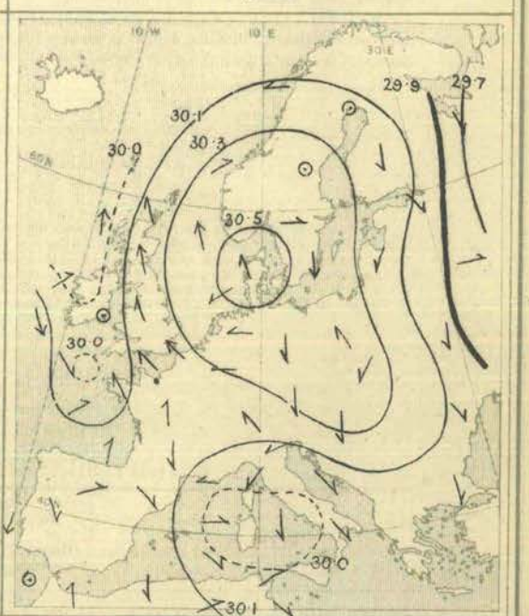
Weather in morning fine and bright over Algeria, Spain, and south-eastern Europe, also in many parts of Finland, Sweden, and Scotland, cloudy and gloomy elsewhere, foggy or misty in many parts of our Islands and at Münster, with rain at some of our western stations and at Lorient; snow at Christiansund, Riga, Swinemunde, and Vienna. Rain later over nearly the whole of our Islands, many parts of France, and some parts of the Baltic; amounts considerable at many Irish stations.

Temperature fallen decidedly in the far north, changed irregularly elsewhere. Morning readings still exceeding 50° on the southern side of the Mediterranean, on the Spanish coast, and the extreme west and south-west coasts of the British Isles; below 40° at several of the British stations, and lowest of all, 3° Fahr. at Haparanda, 6° at Kuopio, 11° at Hernösand, 15° at Archangel and St. Petersburg, 21° at Moscow and Hermanstadt, 30° at Kief, Swinemunde, and Prague. Rising to 50° or more at our west and south coast stations later, and to 68° at Palermo, 69° at Lyons, and 73° at Biarritz, and 77° at La Calle—the last named values being, however, rather local.

Barometer and Wind. 8 a.m.



6 p.m.



Wind (1) Southerly over the Bay of Biscay, the west and north of France, and St. George's Channel, South-Easterly over Ireland and Scotland, variable over England and the Netherlands; (2) Westerly to North-Westerly over northern Europe, Northerly to North-Easterly over the Baltic and north Germany, South-Westerly at Lemberg and over the southern half of Russia. Shifting to the North-Westward on our south-western coasts and in Spain later, but becoming South-Easterly over England, Southerly in Scotland, and increasing in force in the latter region.

Barometer highest, 30·3 ins. and more to 30·2 ins. (1) over the Peninsula and south-west of France, and (2) over the North Sea and southern half of Scandinavia. Lowest, (1) 29·5 ins. and less over the northern half of Russia, (2) 30·0 ins. and less over Ireland, and (3) below 30·1 ins. over Corsica, the Gulf of Genoa, and the Riviera. Rising in the west and south-west of our Islands later, and still more decidedly over central Europe and the Baltic; falling in Scotland and the north-west of Norway, and also over Italy.

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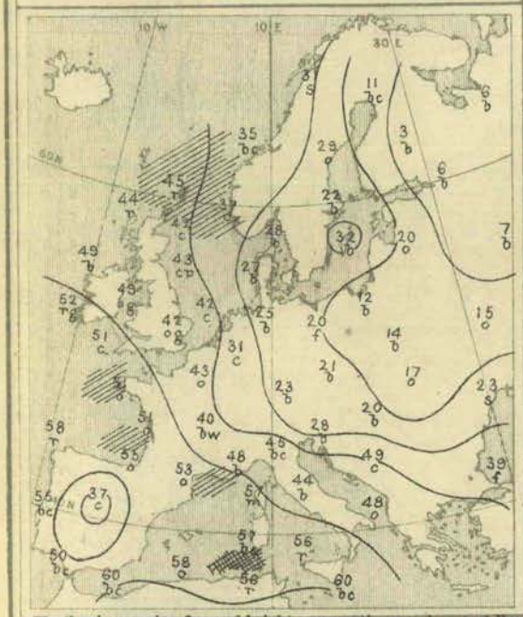
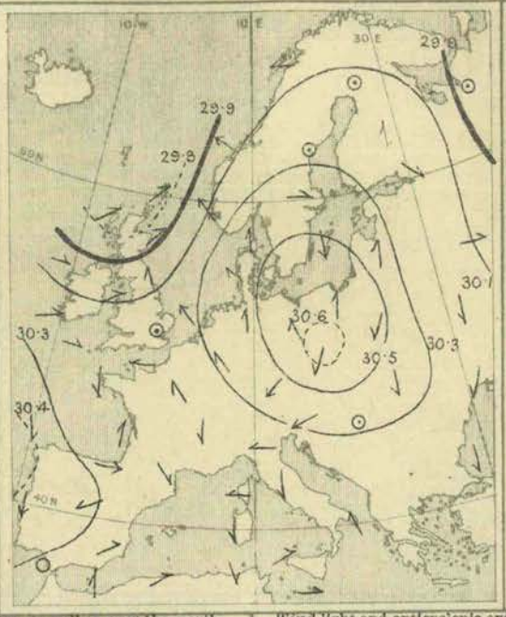
III.—SUMMARY OF WEATHER OVER EUROPE.

Saturday, 26th November.

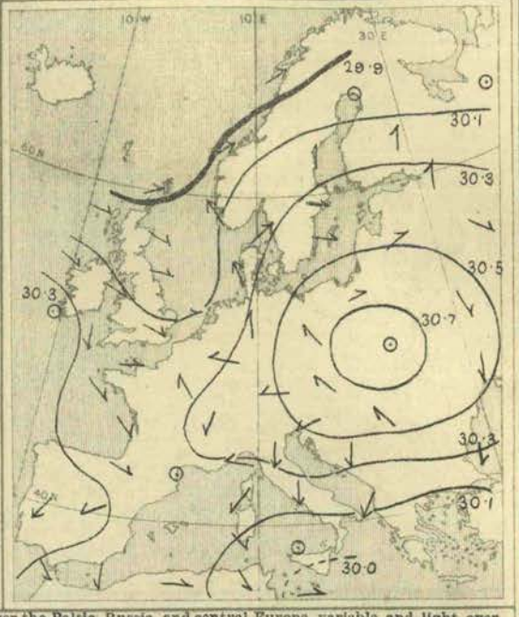
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over northern and central Europe, as well as over the north-west of Ireland and many parts of the Mediterranean; cloudy or overcast elsewhere, with rain in the north and west of our Islands, the north of Spain, and at La Calle, snow at Odessa. Rain later in all parts of our Islands, the Netherlands, several parts of France, and on the southern side of the Mediterranean, as well as at Bodö; amounts reported not large except at La Calle (0·95 ins.).

Temperature fallen rapidly over Russia and central Europe, risen somewhat over Scandinavia and Scotland. Morning readings 60° at Malta and Nemours, and exceeding 50° on the Atlantic coasts of Spain and France, as well as the south-west of our Islands; exceeding 40° all over the United Kingdom and France, much lower elsewhere. Lowest, 3° Fahr. at Kuopio, 6° at Archangel and St. Petersburg, 7° at Moscow, 8° at Kharkov, and below 20° over Russia, eastern and central Germany, and Austria; below the freezing point all over central Europe. Rising to 50° or more over nearly the whole of Ireland, England, and the west of France later, to 60° at Perpignan and to 61° at Lisbon, but sharp frost continuing over Austria and Germany.

Wind light and anticyclonic over the Baltic, Russia, and central Europe, variable and light over France; stronger over our Islands (from North-West in the west, and from South-West and South over Great Britain; South-Easterly (strong to a gale) over Norway. Strong North-Easterly over the Adriatic, moderate over northern Italy, Westerly, light, at Palermo and Malta. Becoming more Westerly over England later, and freshening from North-East over south-western Europe.

Barometer highest, 30·6 ins. and more to 30·2 ins. over central Europe and the south-eastern half of the North Sea; 29·4 ins. and more to 30·2 ins. over Spain, the western parts of the Bay of Biscay and all adjacent parts of the Atlantic. Lowest, 29·8 ins. and less over the northern parts of Scotland, with the Hebrides, Shetlands, and Farö Isles, and below 30·0 ins. over Sicily and the south of Italy. Rising in our Islands and France later.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟶⟶ = a heavy gale; ⟶ = a gale; → = a fresh to strong breeze; ⟶ = a light to moderate breeze: and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During this week the distribution of pressure over Europe has undergone important modifications. At first, the readings were highest over Scandinavia, Russia, and south-eastern Europe, lowest off the Atlantic coasts of the British Islands. South-Easterly breezes were prevalent over western Europe, and blew hard in the south of Ireland, accompanied by heavy falls of rain, and medium temperatures. On Tuesday, however, pressure gave way over the northern countries, but recovered in the west, and while anticyclonic conditions were established over southern and western Europe, depressions appeared in the north and spread south-eastwards over Russia. At the end of the week, however, these conditions were being reversed; a large anticyclone of considerable intensity had advanced over central Europe from the north-westward, and was increasing in importance, while large depressions were appearing off our north and north-west coasts, causing strong South-Westerly to Westerly winds in the latter regions.

BRIGHT SUNSHINE Values for the Week in addition to those found on page 278.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	7·1	?	13	?	EASTBOURNE	4·2	?	7	?
OSWALDKIRK (Yorkshire)	0·4	?	1	?	TENBY	6·1*	?	11*	?
WORKSOP	0·7	− 8·5	1	−17	NEWQUAY	2·0	?	3	?
THURCASTON (Leicestershire)	0·0	− 8·7	0	−17	TORQUAY	2·9*	?	5*	?
MARGATE	6·4	?	11	?	ARLEY COTTAGE (County Cavan)	6·7	?	12	?
WESTBOURNE (Sussex)	4·7*	?	8*	?	GUERNSEY	10·6*	?	17*	?
BRIGHTON	2·8	?	5	?					

The values at Westbourne, Tenby, Torquay and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.
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VOL. IX. No. 48.] *Third Series.* WEEK ENDING SATURDAY, 3RD DECEMBER, 1892. [*Price 6d.* [*Annual subscription, post paid, £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years' observations (1871-90). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the ten years 1881-90. RAINFALL.—*The Mean amounts* are those for the corresponding periods in the twenty-five years 1866-90, but the *Mean numbers of Rainy Days* are those for the ten years 1881-90, only. BRIGHT SUNSHINE.—*The Mean values* employed are those for the corresponding periods in the ten years 1881-90.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 284.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1892. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	54	13	41·8	31·7	36·8	3 below.	0	−11	36	+13	1713	−142	908	+257
	1. SCOTLAND, EAST -	60	13	41·9	30·3	36·1	2 below.	0	−13	41	+12	1979	−362	1015	+315
	2. ENGLAND, N.E. - -	57	21	44·1	34·0	39·1	1 below.	6	− 8	30	+ 8	2278	−232	804	+222
	3. ENGLAND, EAST -	52	27	45·6	35·1	40·4	1 above.	10	− 6	27	+ 6	2700	−205	866	+200
	4. MIDLAND COUNTIES	54	22	46·2	34·6	40·4	1 above.	12	− 5	29	+ 5	2660	−182	955	+284
	5. ENGLAND, SOUTH -	55	29	49·8	37·8	43·8	2 above.	30	+ 6	12	− 6	3023	−151	608	+122
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	61	19	45·4	33·9	39·7	1 below.	10	− 6	31	+16	2177	−251	739	+242
	7. ENGLAND, N.W. -	54	20	45·6	37·4	41·6	1 above.	10	− 7	19	+ 4	2457	−182	649	+178
	8. ENGLAND, S.W. -	56	27	50·2	39·7	45·0	2 above.	31	+ 3	6	− 3	2841	−144	470	+116
	9. IRELAND, NORTH -	55	21	45·8	36·7	41·3	0 (average)	11	− 8	22	+ 5	2400	−193	569	+139
	10. IRELAND, SOUTH -	57	27	49·6	38·8	44·2	1 above.	29	+ 1	9	− 4	2835	−123	474	+145
	— CHANNEL ISLANDS -	54	38	52·6	45·2	48·9	2 above.	48	+ 5	0	− 2	3452	+ 26	164	+ 38

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 284.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1892. Number of Rainy Days.	Difference from Mean.	Total Fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1892. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of In.	10ths of In.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	6	27	17 more.	236	+12	46·7	+ 1·8	5	− 2	10	− 3	1101	− 32	26	− 1
	1. SCOTLAND, EAST -	5	4	3 less.	189	+ 5	27·0	− 2·6	13	+10	26	+19	1297	− 15	31	0
	2. ENGLAND, N.E. - -	4	2	4 less.	186	+14	24·6	− 0·1	7	+ 7	32	+14	1250	+ 41	30	+ 1
	3. ENGLAND, EAST -	4	4	2 less.	172	+ 4	26·3	+ 2·0	13	0	23	0	1483	+ 9	35	0
	4. MIDLAND COUNTIES-	5	5	1 less.	166	0	22·8	− 3·9	13	+ 3	24	+ 7	1421	+104	34	+ 3
	5. ENGLAND, SOUTH -	5	10	3 more.	152	− 9	23·7	− 2·2	14	+ 3	27	+ 5	1629	+203	39	+ 5
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	5	15	2 more.	190	− 3	44·1	− 2·2	8	0	15	0	1396	+102	33	+ 2
	7. ENGLAND, N.W. - -	6	10	2 more.	192	+13	35·0	+ 2·5	12	+ 4	22	+10	1387	+105	33	+ 3
	8. ENGLAND, S.W. - -	7	14	3 more.	180	− 7	29·5	− 8·4	10	− 1	18	− 1	1655	+112	40	+ 3
	9. IRELAND, NORTH -	6	9	0 (average)	213	+ 3	36·3	+ 2·0	7	− 4	12	− 7	1277	+ 79	30	+ 1
	10. IRELAND, SOUTH -	6	14	5 more.	187	− 5	37·9	+ 2·0	7	− 5	13	− 9	1409	+ 15	34	+ 1
	— CHANNEL ISLANDS -	7	10	0 (average)	181	+18	28·2	− 2·8	8	− 3	14	− 8	1918	+107	46	+ 3

Bright Sunshine.—For several of the stations there are no "mean" values available, and the "difference from the mean" in some of the districts is consequently that of only a few of the stations.

General Remarks.

Weather was mild and changeable during the earlier part of the period, with occasional rain in all parts of the Kingdom, but later on it became much colder, with showers of sleet or snow over the northern and north-western districts, and some considerable falls of rain in the south.

Temperature, after being high very generally, fell rapidly towards the end of the week, and in the northern districts it became very low. The highest of the maxima were recorded on November 28th, and ranged from 61° in Scotland W., and 60° in Scotland E., to 52° in England E. The lowest of the minima were registered on December 1st, when they varied from 13° in Scotland N. and E., and from 19° in Scotland W., to 29° in England S., and to 38° in the Channel Islands.

Rainfall was greatly in excess of the mean in Scotland N., and rather so in England S., and many of the western districts. Over the eastern parts of Great Britain, however, there was a deficit.

Bright Sunshine was more prevalent than for some weeks past, and exceeded the mean in most parts of England and in the east of Scotland. The percentage of the possible duration ranged from 32 in England N.E., 27 in England S., and 26 in Scotland E., to 12 or 13 in Ireland, and to 10 in Scotland N.

Barometer and Wind.—During the first part of the week the barometer was highest in the south, while depressions moved eastwards and north-eastwards far to the northward of our Islands. The winds were consequently Westerly or South-Westerly, and occasionally blew strongly in force. During the latter part of the period the distribution was less regular, depressions appeared over different parts of the Kingdom, and the winds became variable and changed frequently.

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II.—DATA from which the SUMMARY on page 283 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°				Inches	Inches.				
0. SCOTLAND, N.	Sumburgh Head Ⓢ	52	27	42·9	34·9	38·9	− 1·1	3	25	6	1·31	+0·34	*	*	*	*
	Stornoway	53	26	41·7	34·0	37·9	− 2·1	0	29	7	2·62	+1·42	5·1	− 1·4	11	− 3
	Wick	54	13	41·1	29·6	35·4	− 3·4	0	46	6	0·99	+0·32	*	*		*
	Lairg Ⓢ												*	*	*	*
	Glencarron Ⓢ	51	16	40·8	27·9	34·4	− 3·7	0	55	6	5·81	+3·63	*	*	*	*
	Fort Augustus Ⓢ	52	19	42·1	31·3	36·7	− 2·3	0	38	6	2·80	+1·75	3·4	?	7	?
	Fort William Ⓢ	52	21	42·2	32·7	37·5	− 2·3	1	33	6	4·52	+2·62	6·1	?	12	?
1. SCOTLAND, E.	Nairn	60	15	44·4	30·9	37·7	− 1·1	7	41	5	0·71	+0·21	*	*	*	*
	Aberdeen	53	25	41·1	33·0	37·1	− 1·9	0	34	4	0·07	−0·63	19·4	+10·0	40	+19
	Braemar Ⓢ	52	13	40·8	26·7	33·8	− 2·0	0	57	4	0·46	−0·36	4·5 †	?†	9†	?†
	Ochtertyre Ⓢ	52	16	41·3	28·0	34·7	− 3·2	0	51	4	0·40	−0·59	*	*	*	*
	Leith	54	22	43·7	33·3	38·5	− 2·1	4	32	6	0·38	−0·07	*	*	*	*
	Marchmont Ⓢ	49	18	40·0	29·6	34·8	− 3·0	0	50	5	0·55	−0·23	14·3	?	29	?
2. ENGLAND, N.E.	Alnwick Castle	57	21	44·4	32·4	38·4	− 1·1	7	35	3	0·21	−0·54	*	*	*	*
	Durham	51	24	43·4	33·1	38·3	− 0·2	4	32	5	0·29	−0·43	18·1	+ 7·6	35	+14
	Shields	54	25	43·4	32·4	37·9	− 2·4	4	35	4	0·47	−0·18	*	*	*	*
	Scarborough ℳ	52	30	44·7	35·0	39·9	− 0·9	8	27	5	0·21	−0·46	*	*	*	*
	York	51	26	44·3	33·9	39·1	− 0·4	6	30	4	0·17	−0·33	14·4	+ 7·9	27	+14
	Spurn Head	50	30	44·4	37·3	40·9	0·0	7	18	4	0·09	−0·43	*	*	*	*
3. ENGLAND, E.	Hillington ℳ	49	32	44·2	36·1	40·2	+ 1·2	6	23	3	0·33	−0·28	13·1	+ 3·9	24	+ 6
	Yarmouth	47	31	44·3	35·6	40·0	− 0·8	6	24	5	0·24	−0·36	*	*	*	*
	Geldeston	49	29	45·8	33·7	39·8	− 0·5	11	32	4	0·26	−0·35	11·9	− 0·1	21	0
	Cambridge	52	27	47·1	34·9	41·0	+ 1·6	14	28	4	0·54	+0·09	12·7	+ 1·5	23	+ 3
	Rothamsted	51	29	46·8	35·4	41·1	+ 1·7	13	26	4	0·60	0·00	13·0	?	23	?
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	52	26	45·4	33·0	39·2	− 0·2	10	34	4	0·14	−0·36	*	*	*	*
	Loughborough	51	22	46·0	33·1	39·6	+ 0·1	11	34	5	0·49	−0·01	*	*	*	*
	Stamford (Ketton Hall)	51	26	46·4	34·8	40·6	+ 1·2	12	28	5	0·43	−0·16	*	*	*	*
	Cheadle ℳ	50	29	43·8	35·5	39·7	+ 1·0	5	24	6	0·62	−0·07	*	*	*	*
	Churchstoke ℳ	52	24	46·1	34·9	40·5	+ 1·0	11	28	6	0·56	−0·22	11·2	+ 2·5	21	+ 5
	Hereford ℳ	54	27	47·5	33·5	40·5	− 0·2	15	34	4	0·68	+0·10	*	*	*	*
	Cirencester	50	28	46·7	35·3	41·0	+ 2·0	13	27	5	0·55	−0·13	14·0	+ 4·3	25	+ 8
	Oxford	50	30	47·6	36·6	42·1	+ 2·1	23	15	3	0·39	−0·13	14·6	+ 5·6	26	+ 9
5. ENGLAND, S.	London	54	32	48·1	37·1	42·6	+ 1·6	25	14	4	0·65	+0·15	6·0 †	+ 0·3†	11†	+ 2†
	North Foreland	52	34	49·3	38·4	43·9	+ 2·0	28	10	4	1·13	?	*	*	*	*
	Strathfield Turgiss ℳ	52	29	48·6	35·0	41·8	+ 2·0	18	29	6	0·54	−0·02	*	*	*	*
	Dungeness	52	32	50·7	37·7	44·2	+ 2·0	33	12	6	0·98	+0·28	*	*	*	*
	Hastings (St. Leonards)	52	33	50·5	37·7	44·1	+ 2·0	33	12	5	1·50	+0·80	17·0	+ 4·9	30	+ 3
	Southampton	55	33	50·7	38·6	44·7	+ 2·7	33	10	4	1·00	+0·29	15·1	+ 5·4	26	+ 8
	Hurst Castle	52	36	51·6	40·0	45·8	+ 2·8	35	6	6	1·14	+0·47	*	*	*	*
	Stowell ℳ	52	32	49·1	37·6	43·4	+ 2·8	28	12	6	0·91	?	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	61	24	47·6	33·9	40·8	0·0	16	33	6	2·96	+0·76	*	*	*	*
	Glasgow	52	19	42·2	31·7	37·0	− 2·3	1	37	5	1·33	+0·45	4·8	+ 0·6	10	+ 2
	Ardrossan	51	26	46·3	35·9	41·1	− 0·2	12	24	5	0·91	+0·04	*	*	*	*
	Glenlee Ⓢ	53	20	44·1	30·0	37·1	− 1·3	6	44	6	1·83	+0·34	*	*	*	*
	Douglas (Isle of Man)	52	28	46·9	38·1	42·5	+ 0·2	20	11	5	0·62	−0·47	10·1	− 1·4	19	− 2
7. ENGLAND, N.W.	Newton Reigny	52	20	43·5	31·8	37·7	− 1·0	4	37	4	0·85	+0·05	9·6	+ 1·7	18	+ 2
	Stonyhurst	50	26	43·4	35·3	39·4	− 0·4	4	25	7	1·82	+0·74	10·5	+ 2·8	20	+ 6
	Blackpool ℳ	51	28	45·7	37·9	41·8	+ 1·3	10	17	5	0·97	+0·22	10·0	+ 3·0	19	+ 5
	Manchester	51	27	44·5	35·6	40·1	+ 0·6	7	25	7	1·18	+0·30	*	*	*	*
	Liverpool Obsy. (Bidston)	53	32	45·6	39·3	42·5	+ 1·2	15	8	6	0·52	−0·10	*	*	*	*
	Llandudno ℳ	54	32	48·1	40·8	44·5	+ 1·4	23	3	7	0·93	+0·13	17·3	+ 9·7	32	+18
	Holyhead	52	35	48·4	41·4	44·9	+ 0·4	23	2	7	0·61	−0·26	*	*	*	*
8. ENGLAND, S.W.	Llandovery	51	27	47·9	34·7	41·3	− 0·1	17	30	7	1·51	+0·35	*	*	*	*
	Pembroke	52	36	50·6	42·6	46·6	+ 1·6	32	0	7	1·27	+0·31	9·8	− 1·2	18	− 2
	Arlington (N. Devon)	50	33	48·6	37·6	43·1	+ 1·3	26	12	7	2·68	+1·28	*	*	*	*
	Cullompton ℳ	53	32	50·9	36·6	43·8	+ 2·2	35	15	6	0·83	−0·04	10·1	+ 2·3	18	+ 3
	Falmouth	54	40	51·4	43·3	47·4	+ 1·5	38	0	7	1·18	−0·04	10·1	− 2·7	17	− 5
	Plymouth	54	37	51·2	42·1	46·7	+ 2·5	33	0	7	0·92	+0·12	?	?		?
	Prawle Point	56	36	51·1	40·9	46·0	+ 1·7	33	3	7	1·17	+0·32	*	*	*	*
9. IRELAND, N.	Malin Head	52	34	45·3	39·9	42·6	+ 1·4	13	6	6	0·51	?	*	*	*	*
	Londonderry	53	29	45·6	35·6	40·6	− 0·2	10	25	6	1·07	+0·09	*	*	*	*
	Edenfel (Omagh)	54	21	43·6	33·3	38·5	− 1·3	4	32	6	0·70	−0·14	*	*	*	*
	Mullaghmore	55	33	47·6	40·3	44·0	+ 0·3	21	5	5	0·64	−0·44	*	*	*	*
	Belmullet	53	34	46·2	40·6	43·8	− 1·2	18	4	6	1·20	?	*	*	*	*
	Markree Castle	54	24	46·5	35·1	40·8	+ 0·3	13	27	5	1·16	+0·38	7·2	− 2·0	14	− 5
	Brookeborough	53	22	45·3	33·9	39·6	+ 0·3	9	31	5	1·25	+0·23	*	*	*	*
	Armagh	53	25	45·7	34·7	40·2	+ 0·4	10	28	5	0·61	−0·09	5·0	− 6·0	9	−12
	Donaghadee	53	32	45·4	37·3	41·4	− 0·6	10	19	7	0·54	−0·16	*	*	*	*
	Edgeworthstown												*	*	*	*
10. IRELAND, S.	Dublin	55	31	48·0	38·1	43·1	+ 0·3	24	11	5	0·39	−0·24	10·7	−12·4	20	− 4
	Parsonstown	54	27	46·7	35·4	41·1	+ 0·1	13	27	5	0·96	+0·26	5·6	− 5·6	10	−12
	Kilkenny	52	27	47·1	35·9	41·5	− 1·0	14	25	7	1·01	+0·34	*	*	*	*
	Waterford	54	30	50·2	36·6	43·4	− 0·6	32	15	5	0·99	+0·01	*	*	*	*
	Roche's Point	54	37	51·6	42·1	46·9	+ 2·1	24	0	5	1·95	+0·80	*	*	*	*
	Valencia	54	40	51·9	43·6	47·8	+ 1·8	41	0	7	1·29	+0·04	5·4	− 4·8	9	−11
	Killarney	57	35	52·9	40·2	46·6	+ 2·8	40	5	7	2·20	?	*	*	*	*
	Foynes	54	31	48·0	38·4	43·2	+ 0·5	24	10	6	1·98	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	54	40	52·6	44·9	48·8	+ 1·1	48	0	7	0·74	−0·20	*	*	*	*
	Jersey	54	38	52·6	45·4	49·0	+ 3·3	49	0	6	1·17	+0·22	7·5	− 4·2	13	− 8

Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

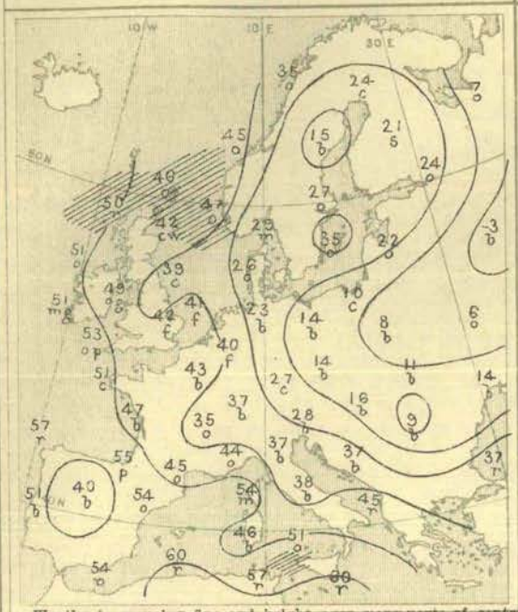
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory and the Meteorological Office, Victoria Street. For additional Reports of Sunshine see last page.

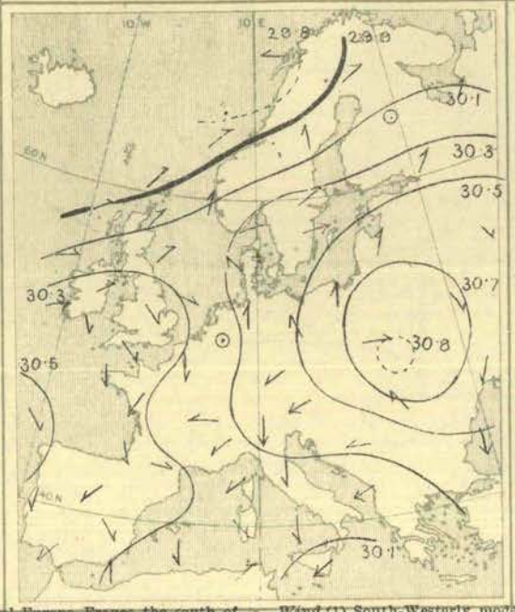
III.—SUMMARY OF WEATHER OVER EUROPE.

Sunday, 27th November.

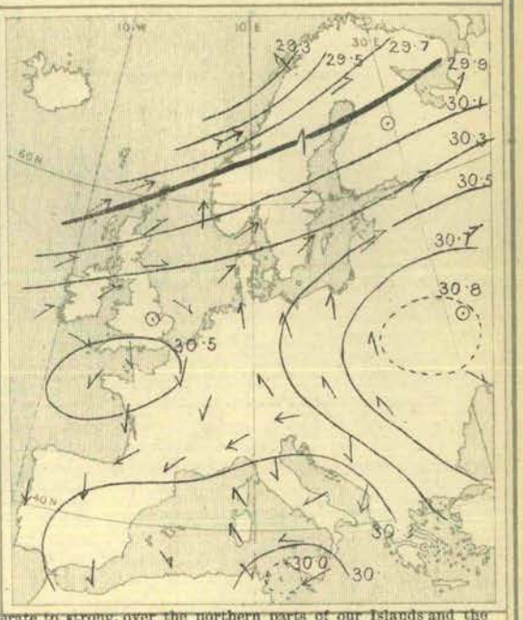
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over many parts of central Europe, France, the south of England, and the northern half of Sweden, cloudy and unsettled over north-western Europe, as well as the Mediterranean, with rain at Kuopio, as well as at several of the Algerian stations and Malta. Considerable rain at Christiansund and Stornoway later, and smaller quantities at other northern and western stations—also in the south-west of France. Snow falling at St. Petersburg; thunderstorm with heavy rain occurring at Algiers at night.

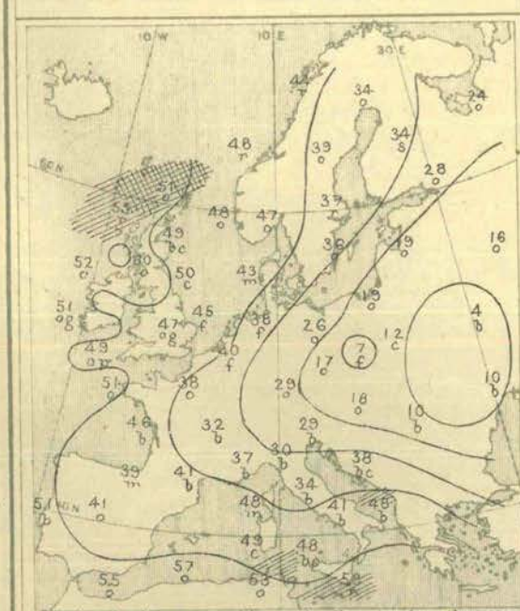
Temperature risen over Ireland, Scotland, and northern Europe, fallen over the central and southern parts of Russia and Germany. Morning readings highest, 60° at Malta and Algiers, and above 50° at most Algerian, Spanish, and Portuguese stations, as well as in the extreme south-west of our Islands, 50° at Nairn. Lowest, − 3° Fahr. at Moscow, + 3° at Cracow, 5° at Kharkov, 7° at Archangel, and below 20° over nearly the whole of Russia, Austria-Hungary, and eastern Germany, 30° to 38° over many parts of Italy, and 38° to 40° over the northern counties of England. Rising during day to 50° or more in most parts of the United Kingdom, and also in the west of France; exceeding 60° in Spain, Algeria, and the south of Italy.

Wind (1) South-Westerly, moderate to strong, over the northern parts of our Islands and the whole of Scandinavia: (2) Northerly to North-Easterly over France and the Bay of Biscay, North-Easterly over the Mediterranean: (3) anticyclonic over Austria, Poland, and Russia, South-Easterly over north Germany. The South-Westerly wind increasing later to a gale in Scotland and the west of Norway.

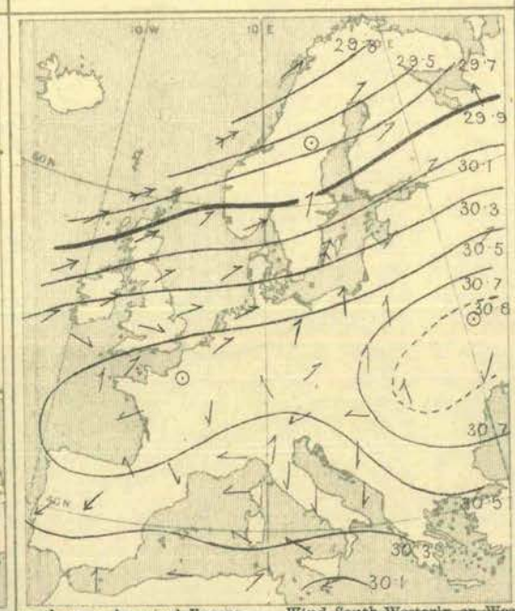
Barometer highest, (1) 30·8 ins. and more to 30·3 ins. in an anticyclone over eastern and central Europe and the Baltic: (2) 30·5 ins. and more to 30·3 ins. in the eastern part of another anticyclone spreading in from the Atlantic over Spain, the western half of France, and the southern half of our Islands; gradients very variable. Falling decidedly over Scandinavia later, as a depression travelled towards that region from the westward.

Monday, 28th November.

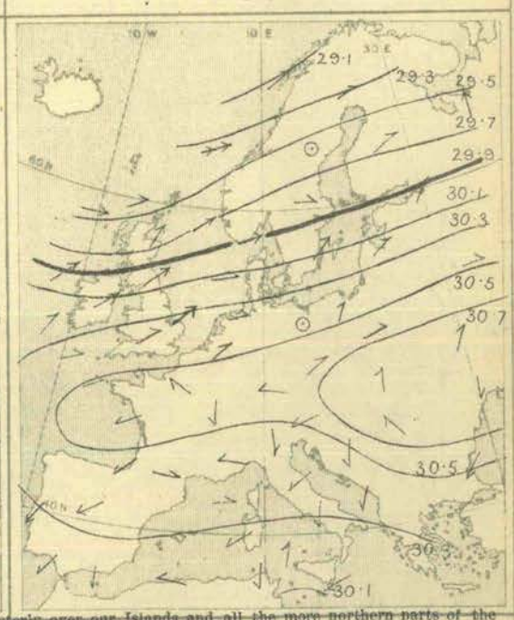
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather cloudy or overcast in nearly all parts of north-western, northern, and central Europe, with fog over Belgium, and the Netherlands, rain in the Hebrides, the west of Norway, and the Gulf of Finland, and slight passing showers at several of the English and Irish stations. Snow reported at Kuopio. Fine and bright in all the more southern parts of the Continent, but dull in Algeria. Rain falling during day in all but the eastern and south-eastern parts of the United Kingdom, but amounts mostly small. Snow setting in at St. Petersburg.

Temperature risen rapidly over northern and central Europe, and slightly in our Islands, but fallen in most of the southern countries. Morning readings highest, (1) 68° at Malta, 57° at Algiers, and 55° at Oran: (2) 53° at Stornoway, and 52° at Nairn, Leith, Belmullet, and Mullaghmore: reaching 50° at most of our own western and northern stations. Lowest, 3° at Kharkov, 4° at Kiev, 5° at Nicolaieff, 7° at Cracow; ranging between 10° and 20° over all the more southern parts of Russia, as well as in Poland and Austria. Rising during day to between 50° and 58° in most parts of the United Kingdom, and reaching 60° at Nairn. Daily maxima below 40° at several of the German and central French stations. Thermometer exceeding 60° in Algeria and the south of Italy, the highest reading being 66° at Oporto.

Wind South-Westerly or Westerly over our Islands and all the more northern parts of the Continent, strong to a gale in force in the north of Scotland and the west of France, as well as in the Gulf of Finland. Light from the Eastward in the west and south of France: moderate to fresh from North-East in Spain; Northerly in Italy and the south of Russia; variable in Algeria. Subsequently increasing to a moderate to strong gale from the South-Westward in all the more northern parts of our Islands: veering to the North-Westward in the north of Scotland at night, and increasing to a whole gale.

Barometer highest, 30·8 ins. and upwards in the south of Russia, 30·3 ins. and upwards in a large anticyclone extending over nearly the whole of central, southern, and eastern Europe, with the more southern parts of England and Ireland. Lowest, 29·3 ins. and less in a large depression lying over the north-west of Norway. Secondary disturbances appearing later off our north and north-west coasts, and barometer falling decidedly in most parts of our Islands and their neighbourhood.

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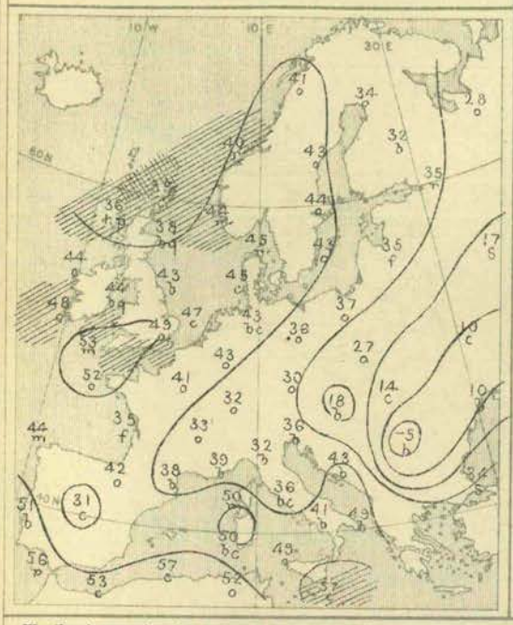
III.—SUMMARY OF WEATHER OVER EUROPE.

Tuesday, 29th November.

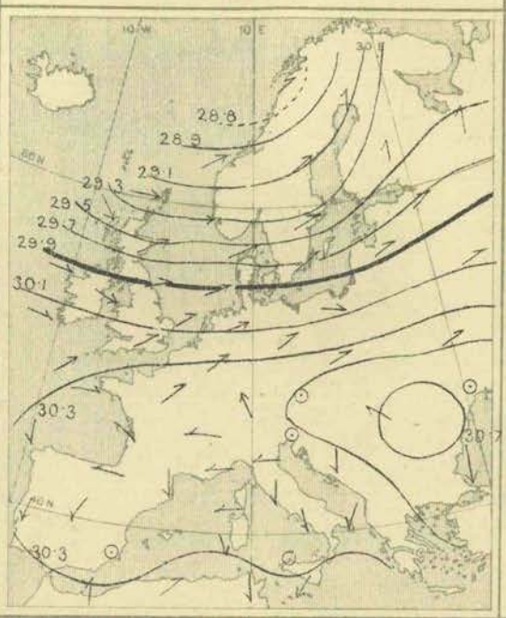
Temperature and Weather.

8 a.m.

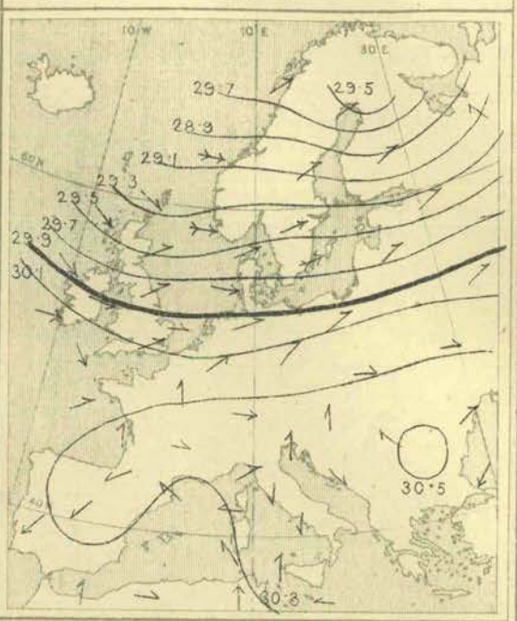


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine generally over south-western, southern, and south-eastern Europe, and temporarily clear in many parts of the British Islands, cloudy or overcast elsewhere, with rain or snow in places; very unsettled over the north-western and northern countries generally. Rain later over all these last-named regions, snow or hail in Scotland and the north of Ireland, as well as in Russia, and heavy rain showers at Christiansund and Hernösand. Thunderstorm occurring at Nautz, and on the following morning at Flushing.

Temperature highest, 50° to 57° on the southern side of the Mediterranean, and exceeding 50° in the south-west of Spain, and on the shores of the English Channel; much lower elsewhere. Lowest, (1) − 5° at Hermanstadt, + 5° at Odessa, 9° at Vienna, 10° at Kiev, 12° at Kharkov, 17° at Moscow, 18° at Breslau, 28° at Archangel; (2) 36° at Stornoway, and 37° to 38° over the east of Scotland; (3) 31° at Madrid. Rising to between 50° and 55° over the south and south-west of our Islands later, but not touching 40° at Stornoway or Wick. Exceeding 60° in Algeria and the south of Italy, the highest reading of all being 66° at Nemours and Oran.

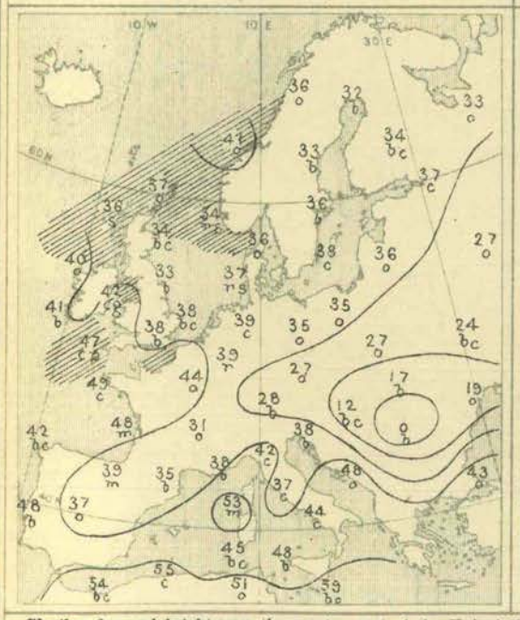
Wind light to moderate and very variable over all the southern countries of Europe, fresh to a gale in the north-west and north; South-Westerly to North-Westerly in our Islands, South-Westerly on the eastern shores of the North Sea and over the Baltic, South-South-Westerly to South over northern Europe. Veering somewhat over the United Kingdom later; increasing to a gale from the Westward over the Gulf of Finland.

Barometer highest, 30·7 ins. and more to 30·5 ins. over south-eastern Europe, and exceeding 30·3 ins. over nearly the whole of the southern and south-western countries. Lowest, 28·8 ins. and less to 29·0 ins. over the northern half of Norway and adjacent parts of the Atlantic. Gradients somewhat steep over Scotland, the North Sea, the southern parts of Scandinavia and the Baltic. Depression over north of Norway subsequently moving eastwards.

Wednesday, 30th November.

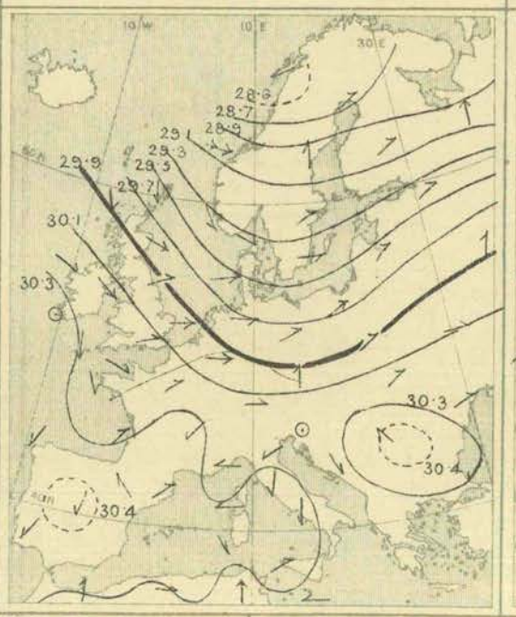
Temperature and Weather.

8 a.m.

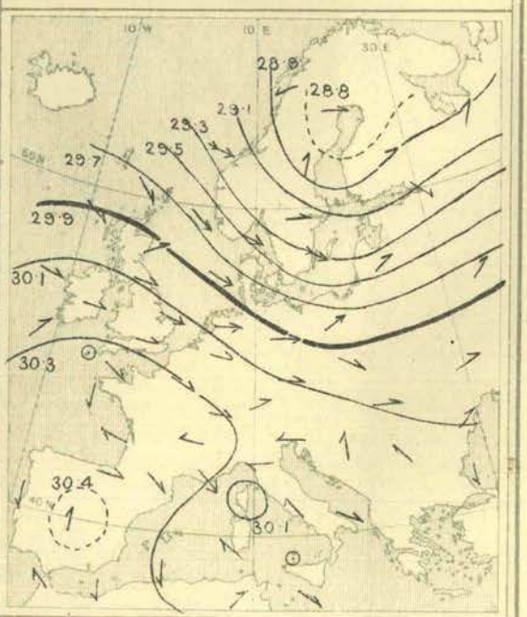


Barometer and Wind.

8 a.m.



6 p.m.



Weather fine and bright over the greater part of the United Kingdom, but showery on our extreme north and north-west coasts, with snow in the north of Scotland, dull in Russia, Norway, Denmark, Germany, the Netherlands, and the northern parts of France, with rain or sleet in several places, but fine over Austria and the greater part of southern Europe. Snow falling later at some of the Norwegian and German stations; rain setting in at night over all the more western parts of the United Kingdom.

Temperature fallen at all but the Russian, Austrian, and Italian stations. Morning readings highest, 59° at Malta, 50° to 55° in Algeria, 45° to 50° in the west of France and the southern parts of Spain and Italy. Lowest, 0° zero at Hermanstadt, 11° at Cracow, and 12° at Vienna and Buda-Pesth; below 20° in the south of Russia; below the freezing point in many parts of central Europe, and very little above it in Scotland and central Ireland. Daily maxima below 40° in the north of Scotland, and below 45° in the northern and eastern parts of our Islands generally. Exceeding 50° in the west of France, and exceeding 60° over the southern parts of Spain and Italy, the highest reading of all being 66° at San Fernando and Palermo.

Wind strong from the Westward or North-Westward over the greater part of the United Kingdom, and also over Norway, Denmark, and the Netherlands, with a gale at Christiansund. Strong to a gale from South-Westward over the Baltic and the Gulf of Finland; light or moderate from the same quarter over Germany and central Russia. Light from South in the south-west of France, but Northerly in Spain and Italy, calm or light and variable in Austria. Subsequently falling light or moderate in all parts of the United Kingdom, and backing to West or South-West in Ireland. Increasing to a gale from the westward over the Baltic.

Barometer highest, 30·30 ins. to 30·45 ins. in a large anticyclone of irregular form covering the south-west of Ireland, the Bay of Biscay, and a considerable portion of southern Europe and the Mediterranean, as well as in a separate system lying over Austria. Lowest, 28·6 ins. and less in a depression, the centre of which lay over the north-west of Norway. Gradients steep over the more northern countries generally. Depression subsequently moving eastwards to Lapland, but fresh disturbances beginning to approach our western coasts.

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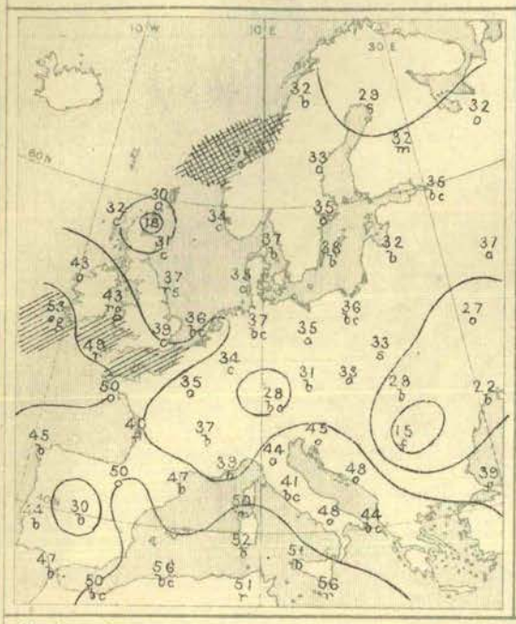
Thursday, 1st December.

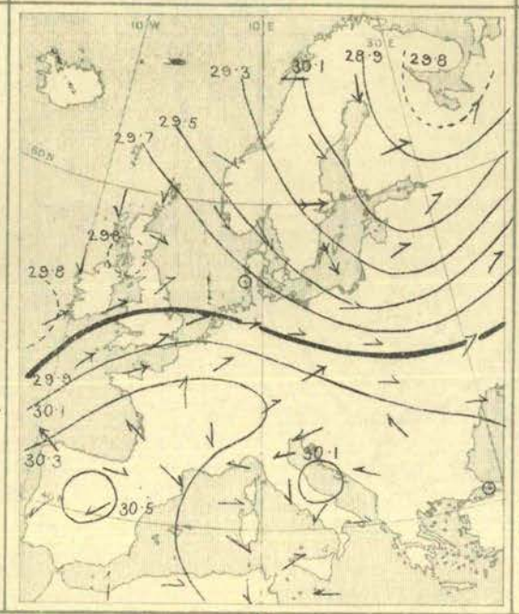
Temperature and Weather.

8 a.m.

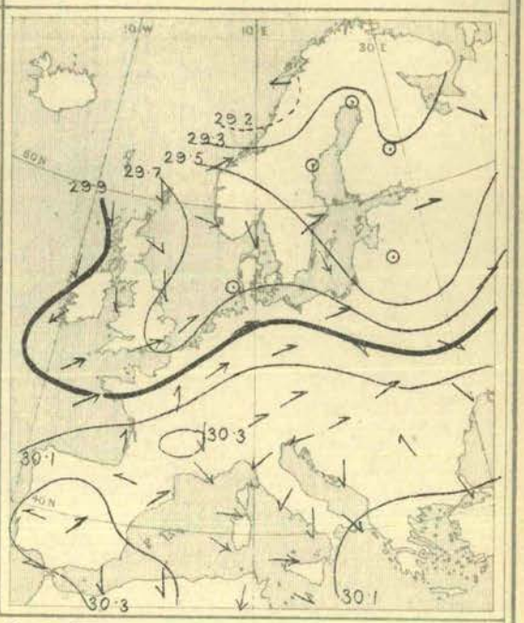


Barometer and Wind.

8 a.m.



6 p.m.



Weather rainy at many of our western and south-western stations, sleet or snow reported over the north of England, and the central and south-eastern parts of Scotland, cloudy in other parts of the Kingdom. Fair or fine over a considerable portion of the Continent, but dull at some of the Russian and Italian stations, with snow at Uleaborg and Warsaw. Some improvement taking place later over the northern parts of the United Kingdom, but steady rain falling in the south and south-east of England, and the neighbouring parts of France and Belgium.

Temperature fallen in many parts of western and northern Europe, but risen elsewhere,—rapidly in Austria. Morning readings highest, (1) 56° at Algiers and Malta, and 52° at Cagliari; (2) 53° at Valencia Island, and 52° at Roche's Point; above 45° at most of the Channel stations. Lowest, (1) 15° at Hermanstadt, 20° at Nicolaieff, and 22° at Odessa; (2) 18° at Wick, and 30° at Sumburgh Head and Nairn, below the freezing point in the north of Scotland generally. Daily maxima below 40° over all the northern parts of Great Britain, and as low as 32° at Stornoway and Wick; thermometer exceeding 50° on our south and south-west coasts, exceeding 55° in the south-west of France, and exceeding 60° in the southern parts of Spain and Italy.

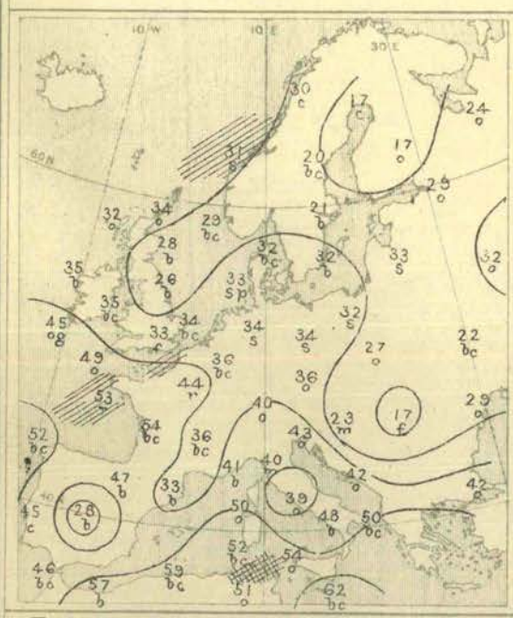
Wind moderate to strong from the South-Westward or Westward over England, the south of Ireland, and the greater part of eastern and central Europe; North-Westerly over Scandinavia and the north of Scotland, with a gale at Wisby. Northerly in the north of Ireland. Light from the North-Eastward in Spain and Italy, but North-Westerly in the south of France. Subsequently increasing to a gale from the Westward in the Channel, shifting to the North-ward in all the more western and northern parts of the United Kingdom. Becoming calm in Finland and the north of Sweden.

Barometer highest, 30·5 ins. and upwards over central Spain, 30·4 ins. and upwards over France, Spain, Algeria, south Germany, and the greater part of Austria. Lowest, 28·8 ins. and less in a deep depression lying over the north of Russia, 29·8 ins. and less in two shallow disturbances, one lying over the west of Scotland and the other off the west of Ireland. Latter systems subsequently moving south-eastwards, and barometer falling quickly over the southern parts of our Islands, but rising in the west and north.

Friday, 2nd December.

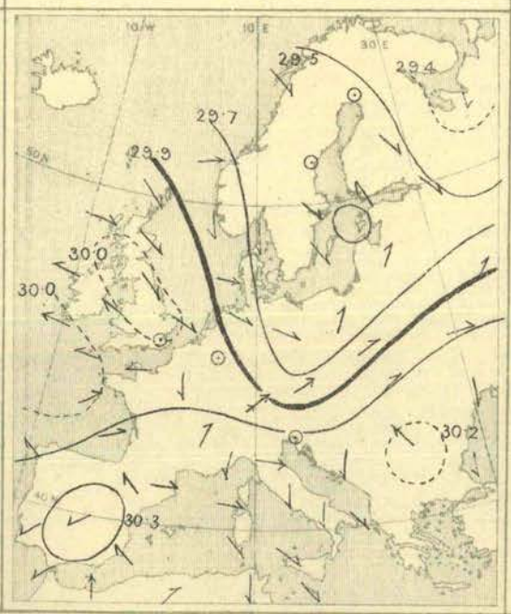
Temperature and Weather.

8 a.m.

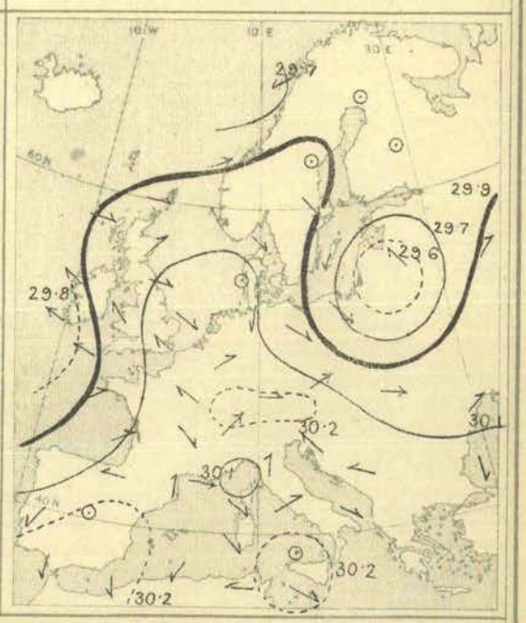


Barometer and Wind.

8 a.m.



6 p.m.



Weather fine over the greater part of the United Kingdom, with mist or fog in places, but dull on our extreme south-west coasts. Fine also in Scandinavia and the southern parts of Europe, but dull over Russia and the more central countries; rain reported over the north of France, and snow in Denmark and north Germany, as well as at Christiansund. Rain setting in later over nearly the whole of England, Ireland, and France: solar and lunar halos seen in many parts of the United Kingdom. Snow falling at Breslau and Lemberg.

Temperature fallen generally, but risen over central France and south Germany. Morning readings highest, 62° at Malta, 59° at Brest and Algiers, and 57° at Nemours; above 50° over the central and southern parts of the Mediterranean generally, as well as in the west of France. Lowest, (1) 14° at Uleaborg, 17° at Haparanda and Kuopio; (2) 17° at Hermanstadt and 16° at Kharkov, below the freezing point over Sweden, Russia, and Austria generally, as well as over central Spain and the northern and central parts of the United Kingdom. Daily maxima below 40° at many of our northern stations, and very little above it in the south-east of England; thermometer exceeding 54° in France and southern Europe, and reaching 68° at Palermo.

Wind Easterly in the west and south of our Islands, moderate in force generally, but strong at Valencia Island. Light from the North-Westward in the north and east of Great Britain, and moderate to strong from the same quarter on the eastern shores of the North Sea, South-Westerly over Russia and south Germany, as well as in the west of Norway. Light from the North-Westward in Italy, and from the North-Eastward in Spain. Southerly in Algeria. Subsequently increasing to a moderate gale from the Eastward on our south-west coasts.

Barometer highest, 30·4 ins. and upwards over central Spain, 30·2 ins. and upwards in an anti-cyclone covering southern Europe and the western parts of the Mediterranean; 30·1 ins. in another system lying over Great Britain. Lowest, 29·4 ins. and less over the north of Russia, 29·6 ins. and less in a "V" shaped secondary system extending south-westward over Finland and the Baltic, 30·0 ins. and less in a shallow system lying to the south-westward of our Islands. Last-mentioned disturbance subsequently advancing in an easterly direction, and barometer falling briskly on our west and south-west coasts.

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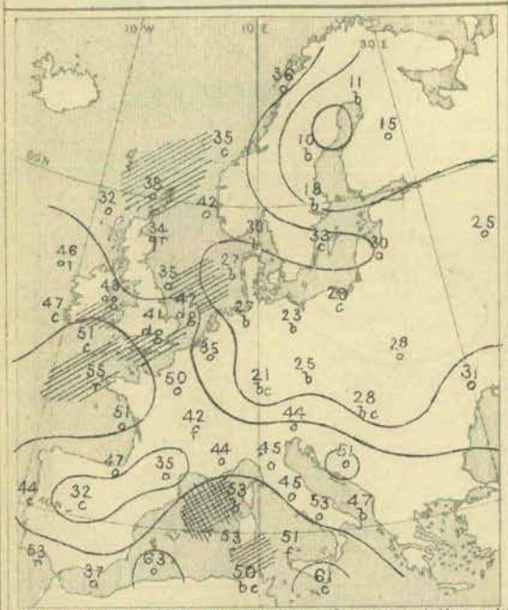
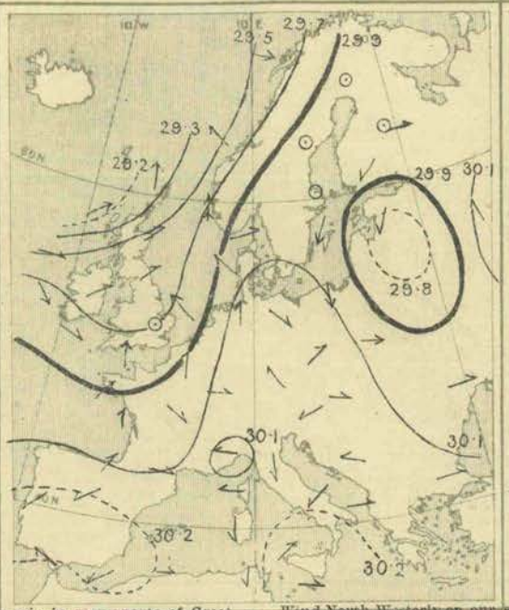
III.—SUMMARY OF WEATHER OVER EUROPE

Saturday, 3rd December.

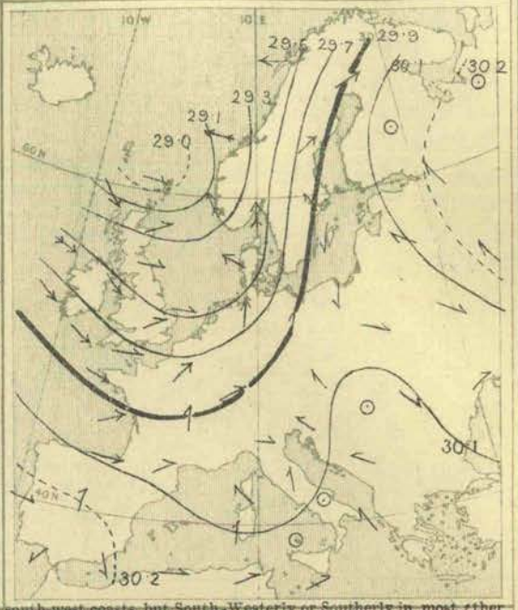
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather dull at all but our extreme south-western stations, with rain in many parts of Great Britain. Fine and bright in Sweden, Denmark, and Germany, but cloudy in most other countries, with rain at San Fernando. Snow falling later in Scotland, hail or sleet showers in Ireland, and rain at most of the Dutch, German, and French stations, as well as in northern Italy.

Temperature risen briskly in our Islands and Norway, and slightly in Spain and northern Italy, but fallen elsewhere. Morning readings highest, (1) 63° at Algiers, 61° at Malta, and 58° at several other of the Mediterranean stations; (2) 55° at Brest and Lorient, and 54° at Jersey; above 50° over the English Channel generally. Lowest, 10° at Hernösand, 11° at Ulleaborg, 15° at Kuopio, and 18° at Haparanda and Stockholm; below the freezing point over northern, eastern, and central Europe generally, and very little above it over the northern parts of Great Britain. Daily maxima below 40° at several of our northern stations, but above 50° on our south and south-west coasts and also in France. Exceeding 60° over the southern parts of Spain and Italy, and reaching 68° at Palermo.

Wind North-Westerly on our south-west coasts, but South-Westerly or Southerly in most other parts of our Islands and France; Southerly or South-Easterly on the eastern shores of the North Sea, with a gale at Skudesnaes. Calm in Sweden, Northerly over the Baltic; Westerly in Poland and eastern Germany, variable in the south of Russia. Chiefly Northerly in Italy and North-Easterly in Spain, but variable in Algeria. Subsequently veering to the Westward or North-Westward in all parts of our Islands and blowing very strongly in the west; strong South-Easterly gale setting in on the Norwegian coasts.

Barometer highest, 30·3 ins. and upwards in Bohemia; 30·1 ins. and upwards in a large anticyclone covering the whole of central and southern Europe, with the Mediterranean. Lowest, 29·2 ins. and less in a well-marked depression lying off the north-west of Scotland; 29·8 ins. and less in a shallow disturbance over the Baltic Provinces. Former depression subsequently moving eastwards, and also spreading out in a southerly direction. Gradients becoming very steep over Scandinavia and Denmark, and rather steep over the western and northern parts of the United Kingdom.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟿ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of the week, anticyclonic conditions prevailed over all but the extreme northern and north-western parts of Europe, where the weather was beginning to be affected by a series of depressions which were advancing over Scandinavia from the westward. Later on, these disturbances, which were large and deep, spread gradually southwards over the whole of our Islands and the northern half of the Continent, where the wind blew strongly from the Westward, with gales at many of the northern stations, and with squally rainy weather. By the 1st December, when the large anticyclone had drifted away to southern Europe and the Mediterranean, secondary disturbances began to pass eastwards across the United Kingdom, the wind falling light or moderate, and becoming more variable in direction. At the close of the week, however, a large depression had again appeared off the north of Scotland, and as the system moved eastward, strong North-Westerly winds set in over our more northern districts, with a considerable fall of temperature, and with snow in many places. Over the southern and south-eastern countries the weather during the week was mostly fair, but in Austria and the south of Russia later severe frost was prevalent until nearly the end of the period.

BRIGHT SUNSHINE Values for the Week in addition to those found on page 284.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	13·6	?	27	?	EASTBOURNE	17·8	?	31	?
OSWALDKIRK (Yorkshire)	17·6	?	33	?	TENBY	11·1*	?	20*	?
WORKSOP	15.2	+ 7·2	28	+12	NEWQUAY	9·4	?	16	?
THURCASTON (Leicestershire)	10·4	+ 3·1	19	+ 4	TORQUAY	10·5*	?	18*	?
MARGATE	12·2	?	21	?	ARLEY COTTAGE (County Cavan)	7·5	?	14	?
WESTBOURNE (Sussex)	13·5*	?	23*	?	GUERNSEY	8·3*	?	14*	?
BRIGHTON	14·8	?	26	?					

The values at Westbourne Tenby, Torquay and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.
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VOL. IX. No. 49.] *Third Series.* WEEK ENDING SATURDAY, 10TH DECEMBER, 1892. [*Price 6d.* [*Annual subscription, post paid.* £1 10*s.* 0*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years' observations (1871-90). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the ten years 1881-90. RAINFALL.—*The Mean amounts* are those for the corresponding periods in the twenty-five years 1866-90, but the *Mean numbers of Rainy Days* are those for the ten years 1881-90, only. BRIGHT SUNSHINE.—*The Mean values* employed are those for the corresponding periods in the ten years 1881-90.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 290.)	Observed during the Week. Highest.	Observed during the Week. Lowest.	Averages of Daily Maxima.	Averages of Daily Minima.	Averages of Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1892. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	46	12	36·8	26·0	31·6	7 below.	0	− 9	73	+46	1713	−147	977*	+289
	1. SCOTLAND, EAST -	43	8	35·8	24·6	30·5	7 below	0	−10	81	+47	1979	−366	1096	+359
	2. ENGLAND, N.E. - -	42	22	37·3	28·7	33·2	6 below.	0	−10	62	+36	2278	−237	866	+253
	3. ENGLAND, EAST -	44	19	37·7	28·3	33·2	6 below.	0	−12	62	+36	2700	−212	928	+223
	4. MIDLAND COUNTIES	45	21	38·1	27·4	33·0	6 below.	0	−13	63	+32	2660	−190	1018	+307
	5. ENGLAND, SOUTH -	4	24	41·0	30·6	36·0	5 below.	0	−20	42	+18	3023	−163	650	+133
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	47	21	39·5	28·2	34·0	6 below.	0	− 13	56	+35	2176*	−261	795	+276
	7. ENGLAND, N.W. -	48	20	39·6	30·0	35·0	5 below.	0	−13	49	+30	2457	−191	698	+200
	8. ENGLAND, S.W. -	50	21	43·6	32·1	38·1	5 below.	4	−18	38	+23	2845	−157	508	+132
	9. IRELAND, NORTH -	50	20	41·5	30·7	36·3	4 below.	0	−16	40	+19	2399*	− 205	610*	+150
	10. IRELAND, SOUTH -	51	24	42·6	31·6	37·4	5 below.	2	−20	39	+22	2837	−138	513	+162
	— CHANNEL ISLANDS -	50	36	46·7	38·7	42·9	3 below.	20	−17	9	+ 5	3472	+ 18	173	+ 41

Rainfall.

	DISTRICTS. (See p. 290.)	For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1892. Number of Rainy Days.	Difference from Mean.	Total Fall.	Difference from Mean.
			10ths of In.	10ths of In.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	6	13	0 (average)	242	+13	48·1*	+ 1·9
	1. SCOTLAND, EAST -	4	6	1 less.	193	+ 4	27·6	− 2·6
	2. ENGLAND, N.E. - -	5	6	0 (average)	191	+16	25·2	− 0·1
	3. ENGLAND, EAST -	4	6	0 (average)	176	+ 3	26·9	+ 2·1
	4. MIDLAND COUNTIES-	5	6	0 (average)	171	+ 1	23·4	− 3·9
	5. ENGLAND, SOUTH -	4	6	1 less.	156	− 9	24·3	− 2·2
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	6	13	0 (average)	196	− 2	45·4	− 2·2
	7. ENGLAND, N.W. - -	5	11	3 more.	197	+13	36·1	+ 2·8
	8. ENGLAND, S.W. - -	5	8	2 less.	185	− 7	30·3	− 8·7
	9. IRELAND, NORTH -	7	11	3 more.	220	+ 5	37·3*	+ 2·2
	10. IRELAND, SOUTH -	4	6	3 less.	191	− 6	38·5	+ 1·7
	— CHANNEL ISLANDS -	6	7	2 less.	187	+18	28·9	− 3·0

Bright Sunshine.

	DISTRICTS. (See p. 290.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1892. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	2	− 1	5	− 3	1103	− 38	26	− 1
	1. SCOTLAND, EAST -	13	+12	28	+22	1310	− 13	31	0
	2. ENGLAND, N.E. - -	18	+11	35	+21	1268	+ 50	30	+ 1
	3. ENGLAND, EAST -	21	+10	40	+11	1504	+ 21	35	0
	4. MIDLAND COUNTIES-	19	+11	35	+19	1440	+115	34	+ 3
	5. ENGLAND, SOUTH -	23	+13	42	+25	1652	+216	39	+ 5
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	13	+ 6	27	+14	1409	+105	33	+ 2
	7. ENGLAND, N.W. - -	14	+ 7	27	+14	1401	+111	33	+ 3
	8. ENGLAND, S.W. - -	24	+12	43	+23	1679	+123	40	+ 3
	9. IRELAND, NORTH -	11	+ 2	21	+ 2	1288	+ 78	30	+ 1
	10. IRELAND, SOUTH -	15	+ 4	28	+ 7	1424	+ 19	34	+ 1
	— CHANNEL ISLANDS -	23	+15	40	+25	1941	+117	46	+ 3

Bright Sunshine.—For several of the stations there are no "mean" values available, and the "difference from the mean" in some of the districts is consequently that of only a few of the stations.

General Remarks.

Weather during this period was decidedly cold and changeable, with frequent falls of cold rain or snow, alternating with fine, bright intervals.

Temperature was below the mean in all districts, the deficit ranging from 3° in the Channel Islands and 4° in Ireland N. to as much as 6° or 7° over the northern and north-eastern parts of the Kingdom. The highest of the maxima were recorded, as a rule, on the 10th, when they varied from 42° in England N.E. to 50° or 51° in the south-west and west. The lowest of the minima were registered on somewhat variable dates; they were as low as 8° in Scotland E. (at Braemar), 12° in Scotland N. (at Lairg), between 19° and 24° in most other districts, and 36° in the Channel Islands.

Rainfall exceeded the mean in England N.W. and Ireland N., but in the other districts it either just equalled or was a little below the normal.

Bright Sunshine was more prevalent (except in Scotland N.) than for many weeks past. The percentage of the possible duration ranged from 43 in England S.W., 42 in England S., and 40 in England E. and the Channel Islands, to 21 in Ireland N., and to only 5 in Scotland N.

Barometer and Wind.—The barometer was generally highest to the south-westward, and lowest to the north-eastward and eastward of our Islands, the resulting gradients for North-Westerly and Northerly winds being rather steep. During the earlier part of the time a depression moved south-eastwards over the North Sea, causing North-westerly winds or gales on almost all our coasts. The only other disturbance of importance travelled rapidly from the north-west of Scotland to the south-east of England during the night of the 8th—9th, and was accompanied by strong Northerly winds at most of the western stations, and a strong Westerly gale in the eastern parts of the Channel.

* This value has been altered owing to the receipt of further information.

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II.—DATA from which the SUMMARY on page 289 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°				Inches	Inches.				
0. SCOTLAND, N.	Sumburgh Head S	41	29	38·3	30·7	34·7	− 4·7	0	51	7	1·24	+0·27	*	*	*	*
	Stornoway S	46	28	39·1	29·3	34·4	− 5·0	0	53	6	0·61	−0·63	4·8	− 1·0	11	− 3
	Wick S	41	25	37·1	27·1	32·3	− 5·8	0	68	7	1·27	+0·59	*	*	*	*
	Lairg S	42	12	34·7	18·0	26·7	− 9·7	0	107	5	0·36	−0·54	*	*	*	*
	Glencarron S	43	23	36·2	25·2	30·9	− 7·0	0	78	7	2·76	+0·62	*	*	*	*
	Fort Augustus S	39	20	35·1	24·8	30·2	− 8·2	0	83	5	?1·35	+0·29	0·0	?	0	?
	Fort William S	45	24	36·8	27·0	32·1	− 7·4	0	69	7	1·64	−0·35	1·9	?	4	?
1. SCOTLAND, E.	Nairn	43	16	37·1	24·3	31·0	− 7·0	0	77	5	0·46	−0·02	*	*	*	*
	Aberdeen	39	22	35·3	27·4	31·5	− 6·7	0	74	5	0·78	+0·08	19·7	+11·0	42	+22
	Braemar S	39	8	33·0	19·6	26·6	− 8·4	0	108	5	0·33	−0·39	2·0†	?†	4†	?†
	Ochtertyre S	42	20	37·6	24·9	31·5	− 5·7	0	74	4	0·38	−0·57	*	*	*	*
	Leith	42	22	37·6	27·1	32·6	− 7·3	0	66	3	0·52	+0·12	*	*	*	*
	Marchmont S	37	20	34·4	24·4	29·6	− 7·4	0	87	3	0·83	+0·09	1·0	?	40	?
2. ENGLAND, N.E.	Alnwick Castle	40	25	37·1	29·3	33·4	− 5·3	0	60	5	0·83	+0·12	*	*	*	*
	Durham	38	22	35·6	26·8	31·5	− 6·3	0	74	5	0·50	−0·20	17·4	+ 7·5	35	+15
	Shields	42	24	37·9	29·7	32·5	− 7·1	0	67	5	0·77	+0·17	*	*	*	*
	Scarborough ℳ	41	24	37·6	30·9	34·4	− 5·5	0	53	4	0·76	+0·11	*	*	*	*
	York	40	23	37·1	27·1	32·3	− 6·3	0	68	5	0·28	−0·22	20·1	+14·4	39	+28
	Spurn Head	40	29	38·3	31·4	35·0	− 4·9	0	49	4	0·32	−0·18	*	*	*	*
3. ENGLAND, E.	Hillington ℳ	41	19	37·6	28·2	33·1	− 4·9	0	62	4	0·54	−0·05	21·1	+12·7	40	+22
	Yarmouth	39	24	36·4	28·6	32·7	− 6·7	0	65	4	0·52	−0·04	*	*	*	*
	Geldeston	44	23	38·8	27·6	33·4	− 5·9	0	60	4	0·45	−0·13	17·2	+ 6·1	32	+11
	Cambridge	41	23	37·7	28·0	33·0	− 5·5	0	63	4	0·64	+0·19				
	Rothamsted	42	25	38·2	29·3	33·9	− 4·7	0	57	4	0·80	+0·24	25·2	?	47	?
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	41	25	37·3	28·1	32·9	− 5·7	0	64	2	0·21	−0·29	*	*	*	*
	Loughborough	41	24	37·7	26·6	32·4	− 6·2	0	67	5	0·56	+0·07	*	*	*	*
	Stamford (Ketton Hall)	41	21	37·1	25·7	31·6	− 7·0	0	75	3	0·48	−0·09	*	*	*	*
	Cheadle ℳ	38	22	35·0	26·3	30·8	− 7·1	0	78	5	1·61	+0·91	*	*	*	*
	Churchstoke ℳ	42	24	38·7	27·0	33·1	− 5·7	0	62	6	0·72	−0·03	2·3	+ 1·1	18	+ 2
	Hereford ℳ	45	26	39·9	38·2	34·3	− 5·5	0	54	5	0·28	−0·28	*	*	*	*
	Cirencester	42	23	39·0	27·7	33·6	− 4·6	0	59	6	0·38	−0·27	22·3	+13·3	41	+24
	Oxford	43	28	39·9	29·9	35·1	− 4·1	0	48	5	0·44	−0·06	27·2	+18·9	50	+34
5. ENGLAND, S.	London	45	29	40·3	30·9	35·8	− 4·4	0	43	4	0·46	−0·02	13·3†	+ 8·5†	25†	+17†
	North Foreland	49	27	40·4	32·9	36·8	− 3·9	0	36	5	0·91	?	*	*	*	*
	Strathfield Turgiss ℳ	44	28	39·0	30·0	34·7	− 4·2	0	51	4	0·29	−0·21	*	*	*	*
	Dungeness	46	24	40·9	29·0	35·2	− 6·0	0	48	5	0·75	+0·07	*	*	*	*
	Hastings (St. Leonards)	47	28	40·1	30·4	35·4	− 5·7	0	46	4	0·73	+0·04	24·7	+12·8	45	+23
	Southampton	46	29	42·7	30·3	36·8	− 4·2	2	44	3	0·48	−0·22	33·3	+24·0	61	+43
	Hurst Castle	48	30	43·7	32·0	33·1	− 4·0	5	38	2	0·56	−0·08	*	*	*	*
	Stowell ℳ	46	26	40·9	29·0	35·2	− 4·5	0	48	6	0·21	?	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	47	26	39·5	27·4	33·7	− 6·6	0	58	6	1·71	−0·46	*	*	*	*
	Glasgow	42	25	38·8	27·9	32·6	− 6·2	0	66	5	0·64	−0·26	14·0	+10·4	29	+22
	Ardrossan	46	26	41·6	30·0	36·0	− 4·8	0	42	5	0·85	+0·01	*	*	*	*
	Glenlee S	44	21	37·7	25·0	31·6	− 6·3	0	73	6	0·93	−0·54	*	*	*	*
	Douglas (Isle of Man)	46	29	41·7	30·5	36·3	− 6·4	0	40	6	2·44	+1·39	13·1	+ 2·6	25	+ 5
7. ENGLAND, N.W.	Newton Reigny	41	20	35·7	24·7	30·4	− 7·3	0	81	3	0·47	−0·33	18·5	+12·0	37	+24
	Stonyhurst	40	24	36·1	26·6	31·5	− 7·4	0	74	5	1·25	+0·17	15·1	+ 8·3	29	+16
	Blackpool ℳ	45	29	41·5	30·8	36·4	− 3·2	0	39	4	1·41	+0·71	14·5	+ 8·4	28	+15
	Manchester	40	22	36·5	25·9	31·4	− 7·3	0	74	5	1·29	+0·49	*	*	*	*
	Liverpool Obsy. (Bidston)	45	31	40·9	32·4	36·8	− 3·6	0	36	6	1·53	+0·93	*	*	*	*
	Llandudno ℳ	47	30	42·7	33·7	38·4	− 4·1	2	31	6	1·15	+0·37	6·4	− 0·3	12	0
	Holyhead	48	33	44·0	35·9	40·1	− 3·6	6	24	6	0·91	+0·06	*	*	*	*
8. ENGLAND, S.W.	Llandovery	46	21	41·6	27·3	34·7	− 6·5	0	51	5	1·38	+0·20	*	*	*	*
	Pembroke	49	34	44·4	36·4	40·6	− 4·0	7	23	4	0·79	−0·15	23·0	+12·5	43	+24
	Arlington (N. Devon)	46	27	41·6	30·7	36·3	− 4·9	0	40	5	1·32	−0·03	*	*	*	*
	Cullompton ℳ	47	25	43·3	29·1	36·5	− 4·2	4	48	5	0·48	−0·34	23·7	+16·3	43	+29
	Falmouth	50	31	45·1	35·4	40·4	− 4·7	9	26	6	0·73	−0·47	22·3	+10·3	40	+18
	Plymouth	49	31	44·3	34·0	39·4	− 3·9	6	31	5	0·47	−0·38	?	?		?
	Prawle Point	48	30	44·7	31·9	38·6	− 5·0	8	39	4	0·56	−0·30	*	*	*	*
9. IRELAND, N.	Malin Head	47	31	43·3	35·4	39·5	− 1·1	4	25	7	0·81	?	*	*	*	*
	Londonderry	48	29	42·5	31·1	37·0	− 3·2	1	40	7	1·55	+0·63	*	*	*	*
	Edenfel (Omagh)	46	22	38·6	27·3	33·2	− 5·9	0	62	6	1·12	+0·30	*	*	*	*
	Mullaghmore	48	32	43·9	34·0	39·2	− 3·9	5	31	7	0·89	−0·17	*	*	*	*
	Belmullet	50	32	44·9	35·6	40·4	− 4·2	8	25	7	1·51	?	*	*	*	*
	Markree Castle	48	27	43·0	30·6	37·1	− 2·8	3	43	7	1·67	+0·89	8·2	+ 0·1	16	0
	Brookeborough	46	20	40·5	25·5	33·3	− 5·1	0	61	5	1·08	+0·10	*	*	*	*
	Armagh	46	25	38·8	27·6	33·4	− 5·5	0	60	5	0·61	−0·07	11·3	+ 2·0	22	+ 4
	Donaghadee	45	25	41·4	31·7	36·7	− 4·9	0	37	7	0·93	+0·26	*	*	*	*
	Edgeworthstown	46	24	38·5	27·7	33·3	− 6·2	0	61	7	0·94	+0·14	*	*	*	*
10. IRELAND, S.	Dublin	48	28	40·0	29·8	35·2	− 6·7	0	48	4	0·29	−0·31	14·7	+ 2·7	28	+ 8
	Parsonstown	48	24	40·0	27·4	34·0	− 6·2	0	56	2	0·49	−0·21	18·6	+ 8·8	35	+15
	Kilkenny	47	26	40·7	28·0	34·6	− 6·8	0	52	3	0·38	−0·30	*	*	*	*
	Waterford	48	27	41·7	29·6	35·9	− 7·3	0	43	2	0·39	−0·58	*	*	*	*
	Roche's Point	50	34	44·0	35·4	39·9	− 4·2	6	26	4	0·50	−0·62	*	*	*	*
	Valencia	51	31	46·3	35·9	41·3	− 4·3	12	26	7	0·57	−0·73	11·4	+ 1·6	21	2
	Killarney	51	25	44·9	31·5	38·5	− 4·7	8	41	5	1·28	?	*	*	*	*
	Foynes	49	31	43·3	35·2	39·4	− 2·2	4	26	7	0·94	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	50	38	46·6	39·0	43·0	− 4·1	20	8	5	0·53	−0·37	*	*	*	*
	Jersey	50	36	46·7	38·3	42·7	− 1·9	20	10	6	0·83	−0·07	26·6	+14·8	47	+25

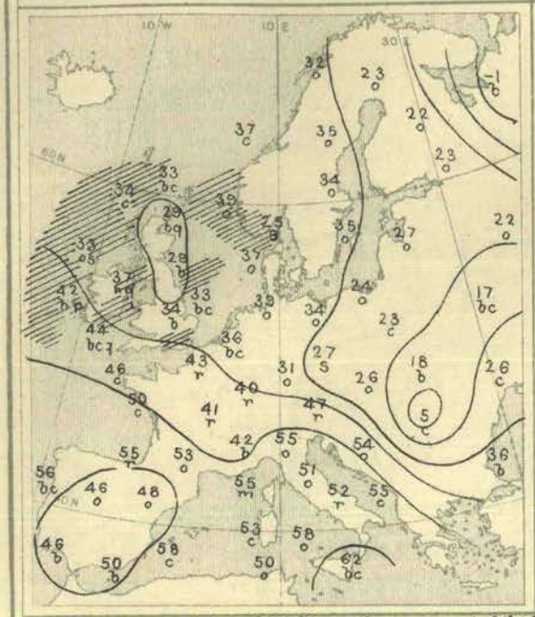
Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked S with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

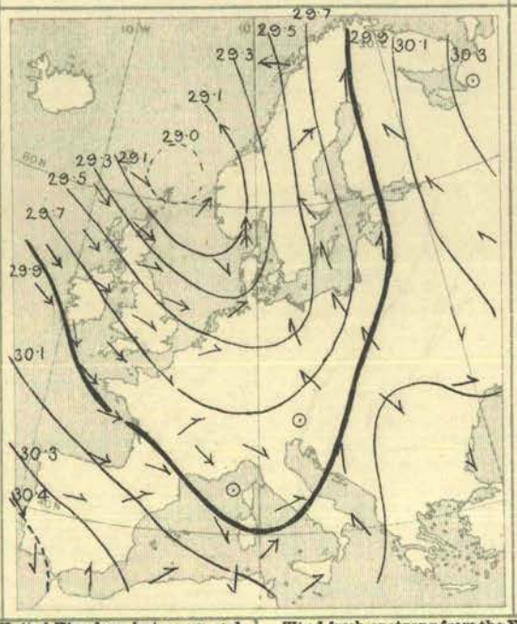
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory and the Meteorological Office, Victoria Street. For additional Reports of Sunshine see last page.

Sunday, 4th December.

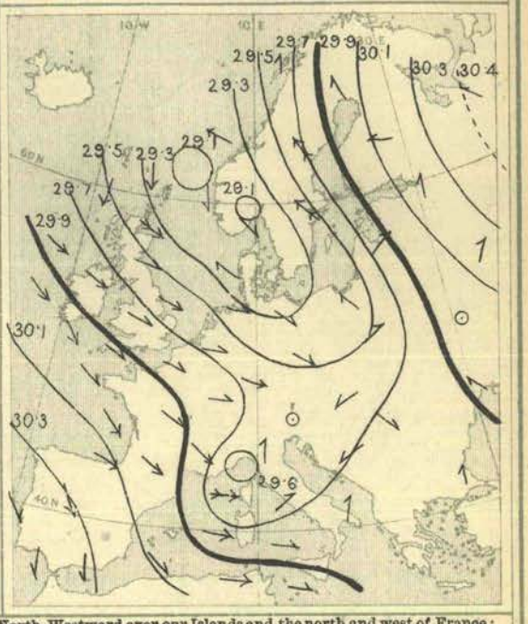
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the greater part of the United Kingdom, but snow and hail showers reported at several of our western stations. Dull over the Continent generally, with rain in France and western Germany, snow at Faerder, Skagen, Prague, and Kharkov. Snow falling later in the north of Scotland, as well as in Holland and Germany, rain or sleet over France, showers over the Mediterranean.

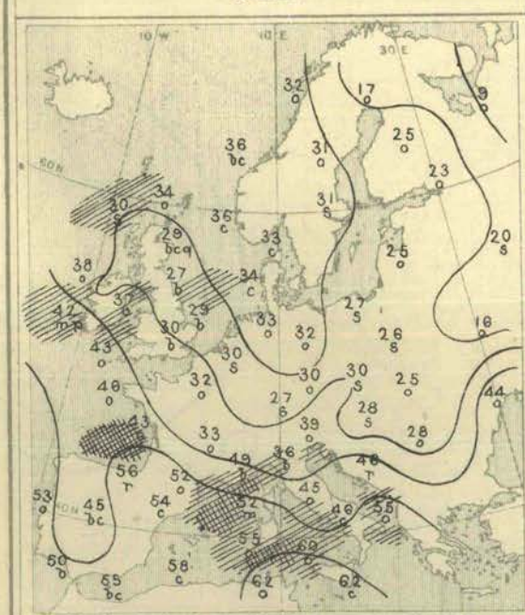
Temperature fallen briskly in our Islands, France, and northern Russia, changed irregularly elsewhere. Morning readings highest, 62° at Malta, 58° at Palermo and Algiers, and 56° at Lisbon; above 50° at most of the Mediterranean stations and in the south-west of France. Lowest, − 1° Fahr. at Archangel, + 5° at Hermanstadt, 17° at Kiev, and 18° at Lemberg; below the freezing point over Russia, Poland, and Austria generally, and also over the northern and central parts of Great Britain. Daily maxima below 40° over all but our extreme south-west coasts, and as low as 39° at Aberdeen. Exceeding 50° in the west and south of France, 60° in parts of Italy and over Algeria.

Wind fresh or strong from the North-Westward over our Islands and the north and west of France; moderate from the Westward or South-Westward over central France and we tern Germany, strong to a gale from the Southward or South-Eastward over Denmark and Scandinavia, and light from the same quarters over northern and central Russia; light from West or North-West over Austria and the south of Russia, South-Westerly in Italy; Southerly (South-Westerly to South-Easterly) in Algeria. Subsequently increasing to a whole gale from the North-Westward in the east of Scotland, and on the Dutch coast.

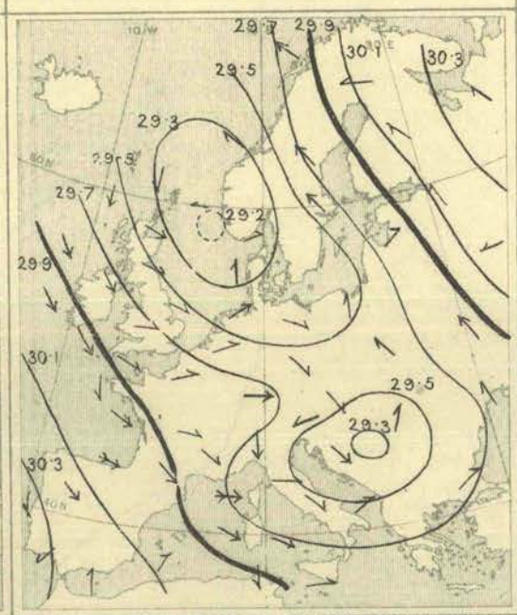
Barometer highest, 30·4 ins. and upwards in an anticyclone lying to the south-west of Spain; 30·3 ins. and upwards in another system lying over northern Russia. Lowest, 29·0 ins. and less in a large and deep depression having two minima, one between the Shetlands and Norwegian coasts, the other over the North Sea. Latter minimum subsequently moving north-eastwards, and the whole system beginning to fill up; barometer rather unsteady on our western coasts in evening.

Monday, 5th December.

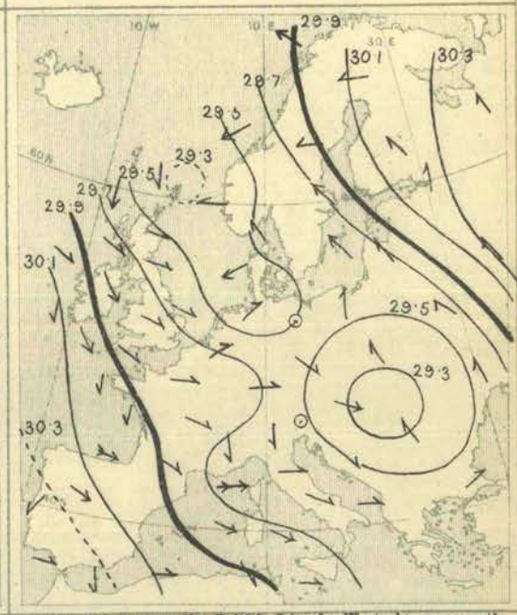
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright at several of the Mediterranean stations, as well as over the eastern, midland, and southern parts of England and the extreme north of France, cloudy elsewhere, with cold showers in many places, and very unsettled over the north-western and south-eastern districts generally. Snow and hail showers later over the greater part of western Europe, as well as over the Baltic, notwithstanding a good deal of bright weather over England.

Temperature showing a further fall over the British Islands and western Europe. Morning readings exceeding 60° over Tunis, Malta, and Sicily, exceeding 50° over Algeria and the south of Italy, exceeding 40° on the Atlantic coasts of France and the extreme south-west of the United Kingdom. Low generally over the inland districts, and lowest of all, (1) 9° at Archangel, 17° at Haparanda, 23° at St. Petersburg; (2) 16° at Kharkov and Kiev, 25° at Riga, Memel, and Lemberg; (3) 27° to 30° over the northern and inland parts of Great Britain and central Ireland. Cold all day over the British Isles and north-western Europe, but rising to 50° and more in the south-west of France, and to 68° at Palermo and Nemours.

Wind (1) North-Westerly, moderate to a gale, over the British Islands, Westerly over north Germany, South-Easterly, fresh to strong, over the northern half of the Baltic, Finland, and Scandinavia; (2) Northerly to North-Westerly over Dalmatia, the north of Italy, and south of France, North-Westerly and Westerly, strong to a gale, in Corsica, Sardinia, and Sicily, South-Westerly at Brindisi, Constantinople, and Hermanstadt. Moderating in many parts of our Islands later, but increasing to a gale again in the north of Ireland, and varying in direction between west and north.

Barometer highest, 30·3 ins. and more to 30·0 ins. over the Spanish Peninsula and adjacent parts of the Atlantic, as well as over the northern and central parts of Russia. Lowest, (1) 29·2 ins. to 29·3 ins. in a depression over the south of Norway, and the northern and eastern parts of the North Sea; (2) 29·3 ins. to 29·4 ins. in another one lying over Bothnia. Rising throughout our Islands during the day, as well as over Scandinavia.

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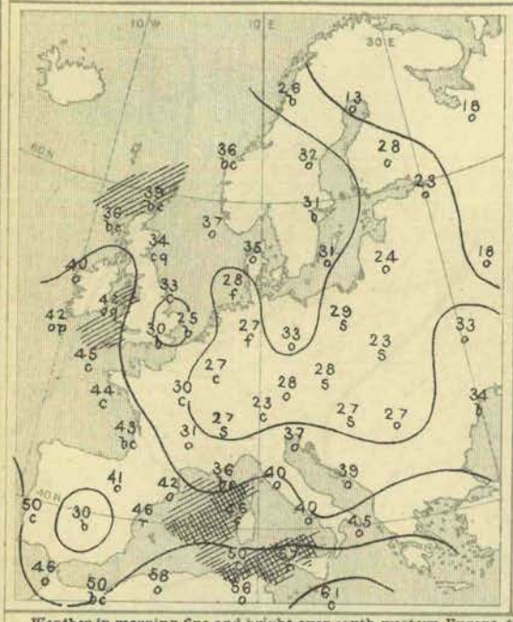
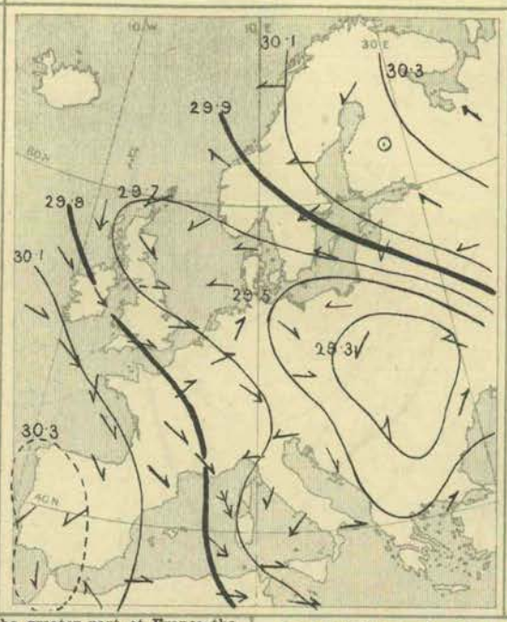
III.—SUMMARY OF WEATHER OVER EUROPE.

Tuesday, 6th December.

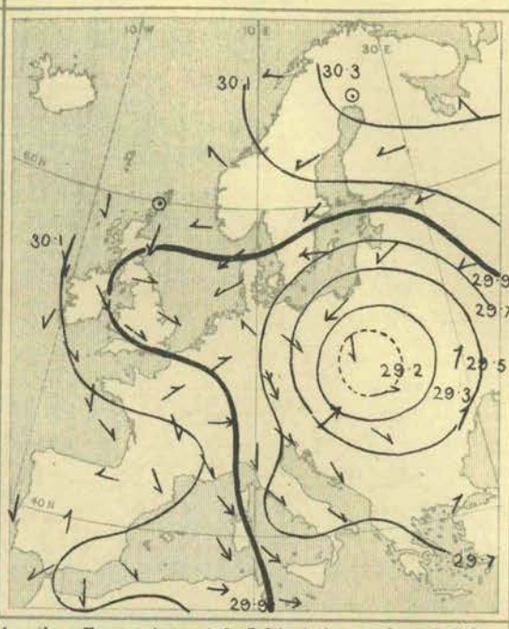
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over south-western Europe, the greater part of France, the extreme southern and south-western parts of the British Islands and the north-western half of Norway, very dull elsewhere. Cold showers falling in the north and west of the United Kingdom, and snow very generally over Germany, Austria, and southern Austria. Cold rain, sleet, or snow falling at times over nearly the whole of the British Isles, the North Sea, Germany, and France during the day, but amounts measured small except at Aberdeen, where the value was 0·34 ins.

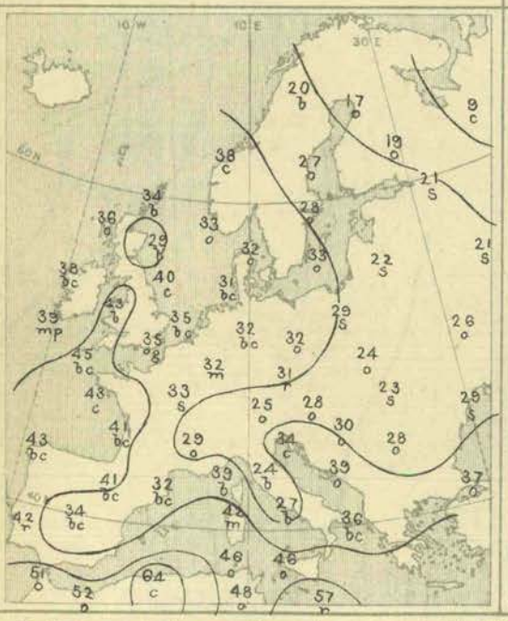
Temperature very unsteady—rising over the United Kingdom (the change coming on from the north-westward), but falling over France. Morning readings remaining between 50° and 60° on the southern side of the Mediterranean; above 40° in the western parts of France and the British Islands, much lower elsewhere. Lowest, 13° at Haparanda, 18° to 28° at the Russian and Finnish stations, 23° to 28° over the greater part of central Europe, 27° at Brussels and Belfort, 30° at Paris, and 25° to 33° over the south-eastern counties of England, changing suddenly during day and exceeding 40° over nearly the whole of our Islands. "Silver thaw" around London.

Wind Easterly over the whole of northern Europe, strong at the Baltic stations, moderate to light elsewhere; North-Westerly to Westerly over the United Kingdom and Channel—strong at the western stations; Westerly over Germany and Austria, Southerly to South-Easterly over the southern half of Russia; Northerly to Westerly and very strong over the greater part of the Mediterranean. Not much change later.

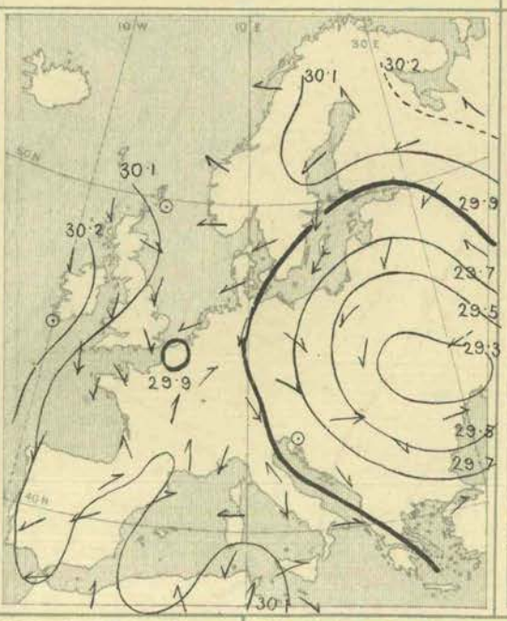
Barometer highest, (1) 30·2 ins. and more to 30·0 ins. over the Iberian Peninsula and the western parts of France and the British Islands; (2) 30·3 ins. and more to 30·0 ins. over northern Europe and central Russia. Lowest, 29·2 ins. to 29·4 ins. in a depression over Hungary and south-western Russia, and below 29·7 ins. in the "V" stretching thence across Germany and the North Sea. Rising over the British Islands and western Europe all day.

Wednesday, 7th December.

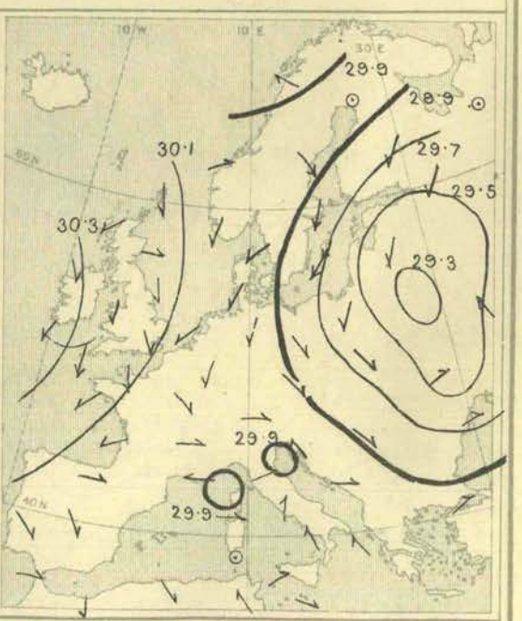
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine generally over the greater part of the British Islands, the west of France, and the northern and eastern portions of the Mediterranean; fair, as a whole, over northern Europe, dull and unsettled elsewhere. Snow or rain falling in many parts of Russia and central Europe, steady rain at Malta and Lisbon, and slight showers at Pembroke and Valencia. Cold showers reported later in Ireland, the eastern parts of England, the Netherlands, and some parts of France and Germany, but weather clearing over central England and in London. Considerable falls of rain at San Fernando, Algiers, and Naples.

Temperature falling again at our northern stations. Morning readings exceeding 40° on the coasts of Spain and the west and north of France and at Scilly. Lowest, (1) 9° at Archangel, 17° at Haparanda, 21° at St. Petersburg and Moscow, and below 30° over nearly the whole of Russia, Poland, and Hungary; (2) 25° at Munich, 26° at Wiesbaden, 33° at Paris, 34° at Lisbon; (3) 23° at Nairn, 25° at Parsonstown, 31° at York. Rising later to between 40° and 46° over the greater part of England and Ireland, to 50° at Nice, and to 50° at Biarritz, 59° at Palermo, and 64° at Algiers. Succeeding night frosty over England and central Ireland.

Wind light from the Eastward over the extreme north of Europe, moderate Northerly over the United Kingdom, the north of France, and the greater part of Spain; very variable over the rest of France, and the Mediterranean. Strong to a gale from the North-Eastward over the Gulf of Finland and the Baltic. Northerly to North-Westerly over Germany, Westerly over Austria and Hungary, but South-Easterly over central Russia. Becoming light over the United Kingdom later.

Barometer highest, 30·2 ins. and more to 30·0 ins. over the northern and western parts of the British Islands, with the adjacent parts of the Atlantic; 30·1 ins. and more over the eastern parts of Spain and also in Tunis; 30·2 ins. and more to 30·0 ins. over the White Sea, Scandinavia, and Finland. Lowest, 29·2 ins. to 29·6 ins. in a depression covering the west of Russia, Austria-Hungary, Poland, and eastern Prussia, 29·9 ins. and less in a shallow secondary over the extreme south-east of England, and a part of the Netherlands. Gradients rather steep over the Baltic and eastern Prussia. Beginning to fall over Scandinavia later, rising over the United Kingdom.

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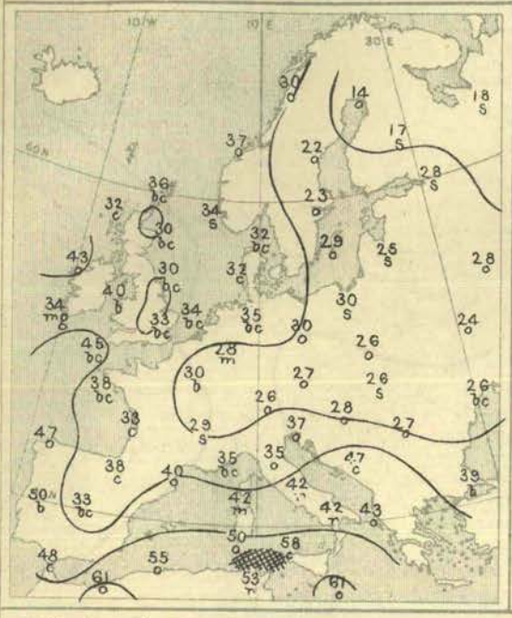
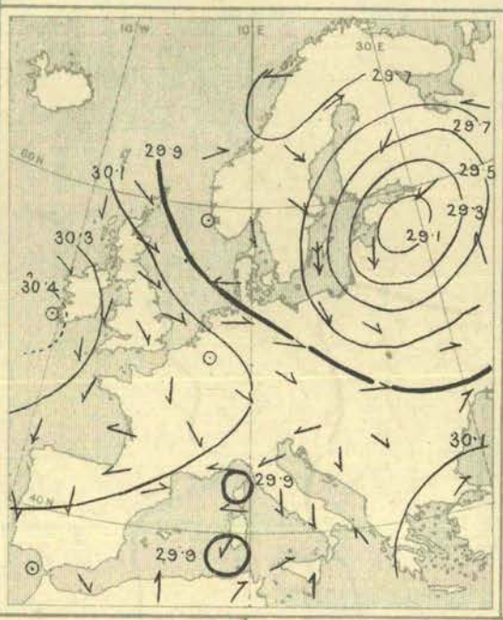
III.—SUMMARY OF WEATHER OVER EUROPE.

Thursday, 8th December.

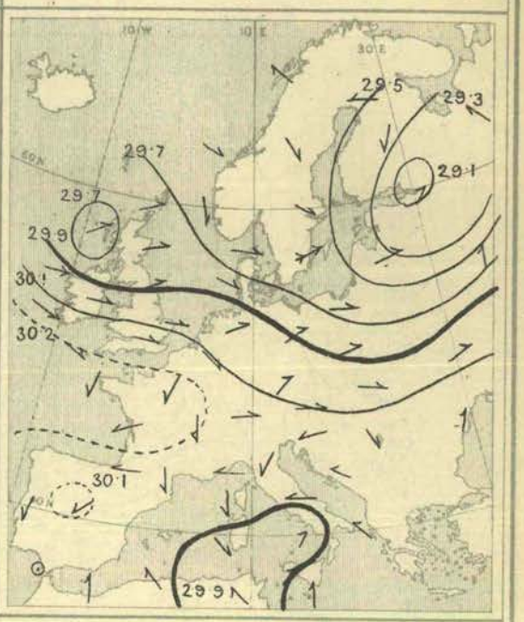
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright in many parts of our Islands, as well as over a good deal of France, Spain, and the Mediterranean; very unsettled and rough over the Baltic, Finland, north Germany, and northern Russia, with snow in many places; rainy at several of the Italian stations, and at La Calle. Cold rain and sleet later in all parts of the United Kingdom, in many parts of France, north Germany, and Scandinavia; rain at times over Italy and Algeria.

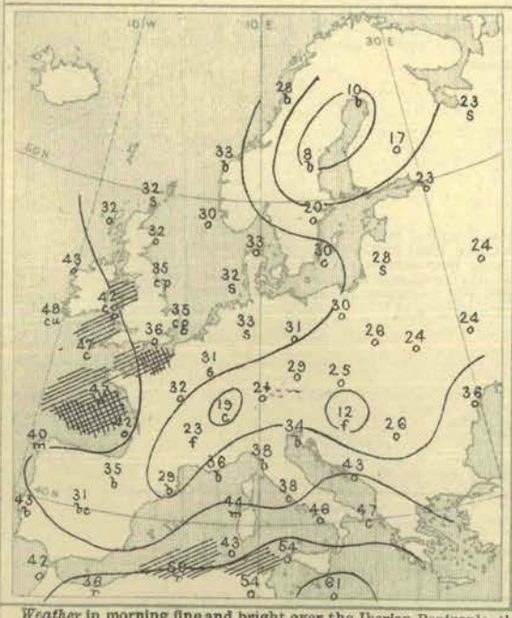
Temperature changing very frequently and irregularly over our Islands, falling over northern Europe, rising at some central stations. Morning readings, 61° at Palermo and Oran, 50° at Lisbon, but below 40° over all the north-west, northern, and eastern countries. Lowest, 14° to 19° Fahr. over Finland, 18° at Archangel, 28° at Moscow, 26° to 30° over the greater part of central Europe, 25° to 32° over central England. Touching 50° in the west of Ireland and at Lisbon later, but not reaching 40° at most of our north-eastern and eastern stations.

Wind North-Westerly (anticyclonic) over the north and east of our Islands, Northerly to North-Easterly in the south, over Brittany, and the Bay of Biscay; cyclonic over northern Europe, northerly gales over the Baltic. North-Westerly breezes over north Germany, Westerly over the southern half of Russia, South-Easterly at Moscow. Backing to West in Ireland later, and becoming strong; light, and variable over Scotland. Shifting to the Westward over the Baltic.

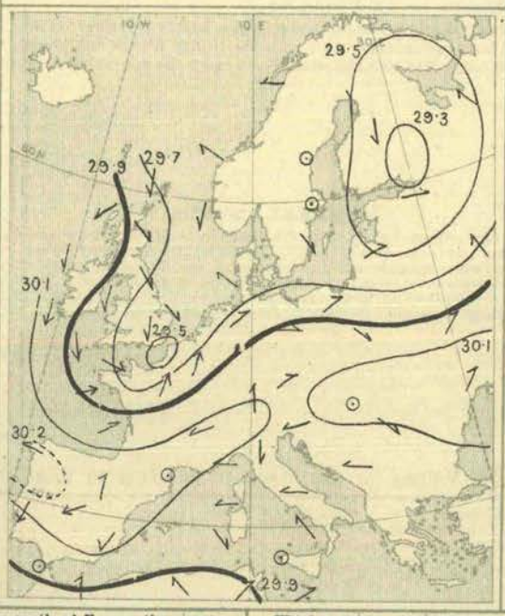
Barometer highest, 30·4 ins. and more to 30·0 ins. in the eastern portion of a large anticyclone spreading in from the Atlantic over the British Isles, France, and Spain; 30·1 ins. and more to 30·0 ins. over Asia Minor and south-eastern Europe. Lowest, 29·1 ins. and less in a well-marked depression over the Baltic Provinces. Latter system moving north-eastwards later, but a new one appearing off our north-western coasts, and advancing rapidly to the south-eastward.

Friday, 9th December.

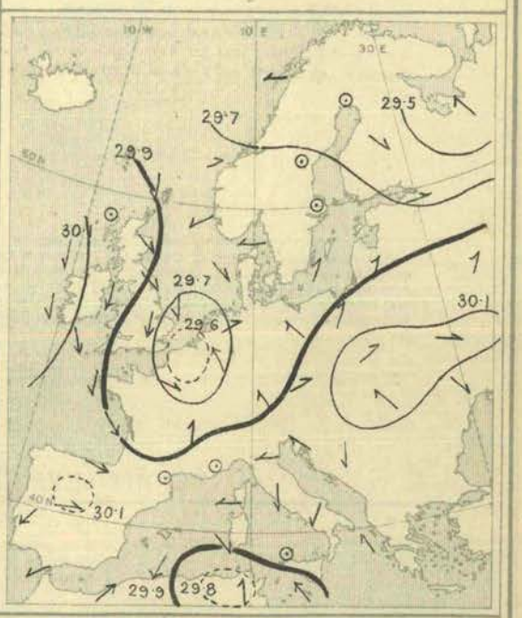
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the Iberian Peninsula, the south of France, the greater part of Ireland, Scotland, and the northern half of Scandinavia; dull elsewhere, and very unsettled over the southern, midland, and eastern parts of England, the Netherlands, and north of France. Snow and rain at many stations in the latter regions, snow at Sumburgh Head and Archangel, rain over Brittany, and a threatening appearance at Valencia (Ireland). Snow squalls later in the north-east and east of England, in many parts of France, and in some parts of northern Europe; a heavy fall (0·8 in. melted) at the Helder. Sky clearing later over England.

Temperature changing very fitfully. Morning readings 61° at Malta, and above 50° over Algeria generally; 50° at Brest, 48° at Valencia; much lower over Europe generally. Lowest, (1) 12° to 26° over Austria-Hungary; (2) 19° at Belfort, 21° at Wiesbaden and Munich, 23° at Lyons; (3) 10° at Haparanda, 17° at Kuopio, Helsingfors and Hangö; (4) 29° to 36° over the northern, central, and eastern parts of our Islands. Falling to reach 40° over our north-eastern, eastern, and midland counties later, and actually falling over Ireland and the south-west of England; rising to 50° or more in the west of France and south of Italy.

Wind variable. (1) Light from the Northward over Finland, moderate North-Westerly over the Baltic, but Southerly at Moscow, South-Easterly at Archangel; (2) moderate North-Westerly in Scotland, very strong and squally from North at our western stations, fresh from the same point over our midland and north-eastern counties, strong from North-West over the Channel, but blowing very hard from the South-Westward in the Straits of Dover and over the south-east of Kent; (3) very variable over southern Europe, but North-Easterly over Spain. Shifting Northwards on our south-east coasts later, and blowing a fresh gale at the mouth of the Thames. Moderating greatly on our western coasts.

Barometer highest, 30·2 ins. and more to 30·1 ins. over Spain and the south-west of France, and exceeding 30·1 ins. over south-eastern Europe, and also off the west of Ireland. Lowest, 29·4 ins. and less in a depression over Finland; 29·5 ins. and less in another over the south-east of England, and below 29·9 ins. all over northern Africa. Depression over our south-eastern districts moving south-eastwards later, and apparently beginning to fill up; Finnish disturbance also filling up, but well-formed system appearing over the north of Africa, near La Calle.

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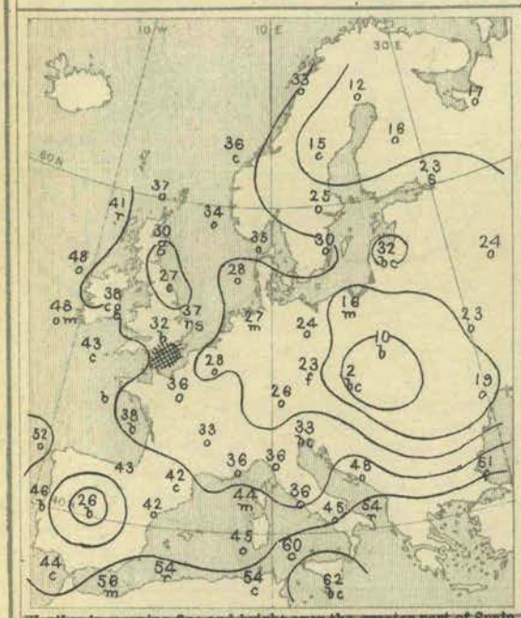
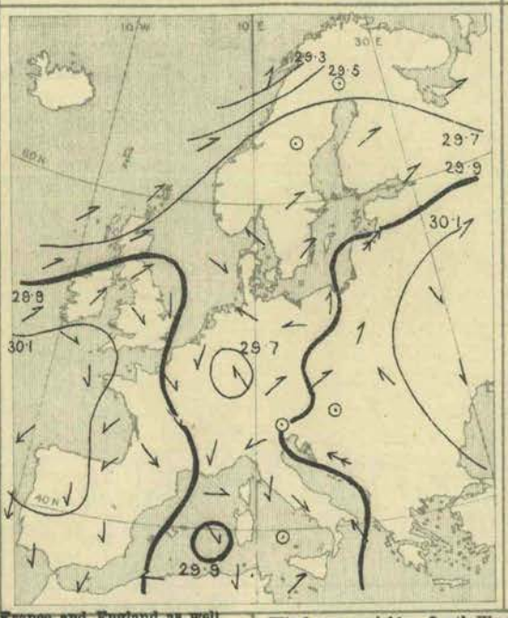
Saturday, 10th December.

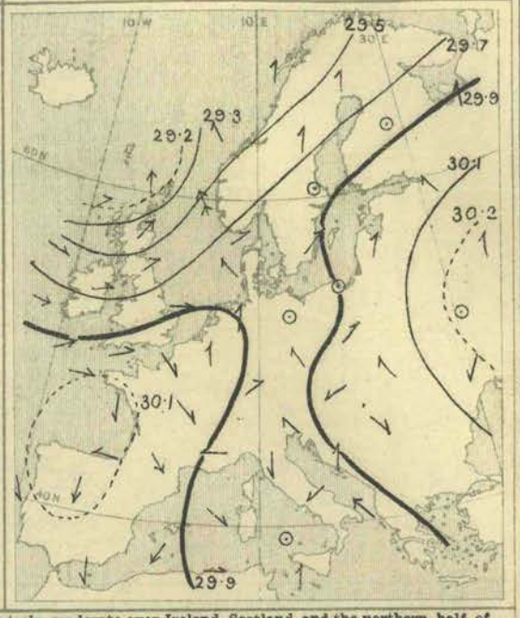
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the greater part of Spain, France, and England, as well as in some parts of Poland and Hungary; dull elsewhere, and unsettled over western Germany, as well as over Ireland, Scotland, and northern Europe. Cold rain or snow later all over the United Kingdom and a great deal of western and central Europe; considerable rain at several of the Mediterranean and Adriatic stations.

Temperature still changing fitfully—very low over central Europe. Morning readings 62° at Malta, 56° at Nemours, 54° at Algiers and Brindisi; 52° at Coruuna, 48° at Valencia and Belmullet. Lowest, (1) 2° Fahr. at Cracow, 8° at Bu da-Pesth, 10° at Warsaw, 19° at Odessa; (2) 12° at Haparanda, 15° at Hernösand, 16° at Knopio; (3) 27° to 32° over the midland and north-eastern counties of England. Rising later to 40° and more over Great Britain, to 50° and more on our south-western coasts, and in the west of France and north of Italy, to 60° and more at several other southern stations, and to 72° at Palermo.

Wind very variable. South-Westerly, moderate over Ireland, Scotland, and the northern half of Norway. Westerly to Northerly over England, Northerly over the north of France, and in Spain. North-Easterly over the Bay of Biscay; mainly Southerly over the eastern half of Europe and the Baltic, but Northerly over southern Russia. Backing to between West and South over our Islands and the Channel later, and to South over Scandinavia, and becoming strong on our western coasts.

Barometer highest, 30·1 ins. and more to 30·6 ins. in two anticyclones—one over southern Russia, Poland, and Hungary, the other over the Bay of Biscay and western Europe. Lowest, 29·3 ins. and less over Finmark, 29·6 ins. and less off our extreme north-western coasts, and 29·7 ins. and less in a depression over western Germany. Latter system filling up later, but new large disturbances (not deep) approaching Scotland from the westward and spreading out in a southerly direction over the British Islands.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇛ = a heavy gale; ➡ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

The pressure-distribution during this week was of a very unsettled character. From Sunday to Tuesday there were two well-defined high-pressure areas—one over the northern and eastern parts of Russia, the other over Spain and the portion of the Atlantic bordering on western Europe. Between these two systems, depressions appeared moving in a south-easterly direction over the North Sea, while another was developed over Bosnia, and moved north-easterly over central Europe. After Tuesday, the northern high-pressure area gave way, and while the Atlantic system spread northwards outside our western coasts, the depression last-named advanced to northern Europe, and a small but well-marked secondary traversed Great Britain from north-west to south-east, and developed strong gales from west-south-west in the Straits of Dover. The high-pressure system then moved southwards, and new large depressions appeared in the north, and spread southwards over the Kingdom.

BRIGHT SUNSHINE Values for the Week in addition to those found on page 290.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	12·1	?	25	?	EASTBOURNE	26·3	?	48	?
OSWALDKIRK (Yorkshire)	16·6	?	32	?	TENBY	25·3*	?	47*	?
WORKSOP	14.4	+ 7·4	27	+12	NEWQUAY	2: 0	?	38	?
THURCASTON (Leicestershire)	20·1	+14·1	38	+26	TORQUAY	27·5*	?	49*	?
MARGATE	17·0	?	31	?	ARLEY COTTAGE (County Cavan)	13·3	?	26	?
WESTBOURNE (Sussex)	23·9*	?	43*	?	GUERNSEY	18·7*	?	33*	?
BRIGHTON	23·0	?	42	?					

The values at Westbourne, Tenby, Torquay and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.
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VOL. IX. No. 50.] *Third Series.* WEEK ENDING SATURDAY, 17TH DECEMBER, 1892. [*Price 6d.* [*Annual subscription, post paid, £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years' observations (1871-90). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the ten years 1881-90. RAINFALL.—*The Mean amounts* are those for the corresponding periods in the twenty-five years 1866-90, but the *Mean numbers of Rainy Days* are those for the ten years 1881-90, only. BRIGHT SUNSHINE.—*The Mean values* employed are those for the corresponding periods in the ten years 1881-90.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 296.)	Observed during the Week. Highest.	Observed during the Week. Lowest.	Averages of Daily Maxima.	Averages of Daily Minima.	Averages of Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	For the Week. Difference from Mean.	For the Week. Below 42°	For the Week. Difference from Mean.	From January 3rd, 1892. Above 42°	From January 3rd, 1892. Difference from Mean.	From January 3rd, 1892. Below 42°	From January 3rd, 1892. Difference from Mean.
		°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	53	30	43·8	35·8	40·0	2 above.	5	− 1	24	− 6	1718	−146	1001	+282
	1. SCOTLAND, EAST	55	26	44·1	33·7	39·1	2 above.	6	0	32	− 5	1985	−364	1128	+349
	2. ENGLAND, N.E.	53	27	45·2	35·5	40·6	2 above.	9	+ 1	27	− 3	2286*	−234	893	+244
	3. ENGLAND, EAST	54	26	46·3	33·3	40·1	2 above.	12	+ 4	36	+ 1	2712	−206	964	+222
	4. MIDLAND COUNTIES	54	26	47·3	34·8	41·3	4 above.	15	+ 6	31	− 6	2675	−182	1049	+297
	5. ENGLAND, SOUTH	55	28	48·2	38·1	43·4	4 above.	26	+11	11	−17	3049	−151	661	+107
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	55	30	46·8	37·8	42·5	3 above.	21	+11	12	−13	2197	−246	807	+258
	7. ENGLAND, N.W.	53	24	47·2	37·4	42·5	3 above.	23	+12	13	−12	2480	−175	711	+183
	8. ENGLAND, S.W.	53	24	49·3	40·7	45·2	3 above.	28	+11	4	−15	2873	−146	512	+117
	9. IRELAND, NORTH	54	27	47·9	37·8	43·1	3 above.	25	+12	12	−11	2424	−188	622	+134
	10. IRELAND, SOUTH	56	28	50.6	40·8	45·9	4 above.	32	+12	3	−17	2869	−122	516	+142
	— CHANNEL ISLANDS	55	35	51·8	44·5	48·3	3 above.	44	+14	0	− 6	3516	+ 35	173	+ 36

Rainfall.

	DISTRICTS. (See p. 296.)	For the Week. Number of Rainy Days.	For the Week. Total Fall.	For the Week. More or less than the Mean for the Week.	From January 3rd, 1892. Number of Rainy Days.	From January 3rd, 1892. Difference from Mean.	From January 3rd, 1892. Total Fall.	From January 3rd, 1892. Difference from Mean.
			10ths of In.	10ths of In.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	17	4 more.	218	+13	49·8	+ 2·3
	1. SCOTLAND, EAST	4	3	4 less.	197	+ 4	27·9	− 3·0
	2. ENGLAND, N.E.	3	1	5 less.	194	+15	25·3	− 0·6
	3. ENGLAND, EAST	3	2	3 less.	179	+ 2	27·1	+ 1·7
	4. MIDLAND COUNTIES	5	2	4 less.	176	+ 2	23·6	− 4·3
	5. ENGLAND, SOUTH	4	3	3 less.	160	−10	24·6	− 2·5
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	6	11	2 less.	202	0	46·5	− 2·4
	7. ENGLAND, N.W.	6	7	1 less.	203	+14	36·8	+ 2·7
	8. ENGLAND, S.W.	6	8	2 less.	191	− 6	31·1	− 8·9
	9. IRELAND, NORTH	7	8	0 (average)	227	+ 7	38·1	+ 2·2
	10. IRELAND, SOUTH	6	6	3 less.	197	− 4	39·1	+ 1·4
	— CHANNEL ISLANDS	5	4	5 less.	192	−18†	29·3	− 3·5

Bright Sunshine.

	DISTRICTS. (See p. 296.)	For the Week. Hours recorded.	For the Week. Difference from Mean.	For the Week. Percentage of possible Duration.	For the Week. Difference from Mean.	From January 3rd, 1892. Hours recorded.	From January 3rd, 1892. Difference from Mean.	From January 3rd, 1892. Percentage of possible Duration.	From January 3rd, 1892. Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	2	− 2	4	− 6	1105	− 39	26	− 1
	1. SCOTLAND, EAST	7	− 3	14	− 9	1317	+ 14	30	0
	2. ENGLAND, N.E.	13	+ 5	26	+11	1281	+ 54	30	+ 1
	3. ENGLAND, EAST	8	0	16	0	1512	+ 18	35	0
	4. MIDLAND COUNTIES	10	+ 2	19	+ 4	1450	+116	34	+ 3
	5. ENGLAND, SOUTH	8	− 2	14	− 3	1660	+213	39	+ 5
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	8	+ 1	16	+ 3	1417	+106	33	+ 2
	7. ENGLAND, N.W.	9	+ 2	17	+ 5	1410	+115	33	+ 3
	8. ENGLAND, S.W.	12	0	22	0	1691	+124	40	+ 3
	9. IRELAND, NORTH	5	− 4	9	− 8	1293	+ 74	30	+ 2
	10. IRELAND, SOUTH	8	− 3	15	− 5	1432	+ 14	33	0
	— CHANNEL ISLANDS	8	− 5	14	− 8	1949	+110	45	+ 2

Bright Sunshine.—For several of the stations there are no "mean" values available, and the "difference from the mean" in some of the districts is consequently that of only a few of the stations.

General Remarks.

Weather during this period was mild and unsettled, as a whole, but during the early part of the time the nights were occasionally sharp and frosty. A good deal of rain was experienced in the extreme north and west, but in the east the falls were slight and less frequent.

Temperature was above the mean very generally, the excess ranging from 2° in the north and east, to 3° in most of the western districts, and to 4° over southern and central England and in the south of Ireland. The highest of the maxima were recorded on the 15th in most parts of England and Ireland, and on the 17th in Scotland; they ranged from 56° in Ireland S., and 55° in Scotland E. and W., England S., and the Channel Islands, to 53° in some of the English districts and in Scotland N. The lowest of the minima were registered either on the 11th or 14th, when they varied from 24° in England N.W. and S.W., to 30° in Scotland N. and W., and to 35° in the Channel Islands.

Rainfall exceeded the mean in Scotland N., and just equalled it in Ireland N.; in all other districts there was a deficit.

Bright Sunshine was much less prevalent than during the preceding week. In Ireland and Scotland the amount recorded was less than the normal for the time of year, but in most of the English districts there was a slight excess. The percentage of the possible duration ranged from 26 in England N.E., and 22 in England S.W., to 9 in Ireland N., and to 4 in Scotland N.

Barometer and Wind.—During the whole of this period the distribution of pressure was favourable for winds from between North-West and West or South-West. A series of large depressions moved in an Easterly or North-Easterly direction over or to the northward of Scotland, while during the earlier part of the week some subsidiary systems passed eastwards over the southern parts of the Kingdom. Winds varying between North-West and South-West were very prevalent over our Islands; in force they were generally moderate or fresh, but increased considerably in the north and north-west, and at times attained the force of a gale.

* This value has been altered owing to the receipt of further information.
† The corresponding value for the weeks ending December 3rd and 10th should read "−18" instead of "+18."

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II.—DATA from which the SUMMARY on page 295 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 49° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°				Inches	Inches.				
0. SCOTLAND, N.	Sumburgh Head ⚓	50	33	44·6	36·3	40·6	+ 1·5	7	23	7	0·82	−0·14	*	*	*	*
	Stornoway	53	33	45·7	36·3	41·2	+ 2·3	10	24	7	0·68	−0·58	3·5	− 2·4	8	− 6
	Wick	52	32	43·3	34·6	39·1	+ 1·6	4	28	4	0·88	+0·18	*	*	*	*
	Lairg ⚓	52	31	42·0	34·0	38·2	+ 2·4	0	27	7	1·24	+0·35	*	*	*	*
	Glencarron ⚓	51	30	43·2	35·0	39·2	+ 1·7	3	26	7	3·42	+1·28	*	*	*	*
	Fort Augustus ⚓	50	32	43·3	35·6	39·6	+ 1·6	4	24	6	1·45	+0·39	0·3	?	1	?
	Fort William ⚓	50	34	44·8	38·8	41·9	+ 2·7	8	14	6	3·22	+1·17	1·3	?	3	?
1. SCOTLAND, E.	Nairn	55	31	44·6	35·0	40·0	+ 2·5	7	28	5	0·35	−0·10	*	*	*	*
	Aberdeen	54	30	43·6	34·1	39·0	+ 1·5	4	30	3	0·20	−0·52	4·7	− 3·8	10	− 9
	Braemar ⚓	47	26	40·5	31·9	36·3	+ 1·9	0	40	2	0·11	−0·57	6·2†	?†	13†	?†
	Ochtertyre ⚓	52	28	44·9	34·3	39·8	+ 3·4	8	30	5	0·30	−0·62	*	*	*	*
	Leith ⚓	55	31	47·3	35·3	41·5	+ 2·3	15	29	5	0·15	−0·35	*	*	*	*
	Marchmont ⚓	51	26	43·7	31·4	37·8	+ 1·4	5	40	3	0·39	−0·32	5·3	?	19	?
2. ENGLAND, N.E.	Alnwick Castle	52	32	45·9	38·1	42·2	+ 4·2	18	11	2	0·08	−0·62	*	*	*	*
	Durham	51	30	44·4	35·0	39·9	+ 2·7	7	28	1	0·10	−0·58	13·9	+ 4·4	28	+ 9
	Shields	53	27	45·7	34·4	40·3	+ 1·7	10	31	3	0·07	−0·51	*	*	*	*
	Scarborough ⚓	52	30	45·1	37·1	41·3	+ 2·4	9	21	3	0·05	−0·59	*	*	*	*
	York	52	27	46·3	33·7	40·3	+ 2·6	12	34	3	0·14	−0·37	11·7	+ 6·2	23	+12
	Spurn Head	49	31	43·9	34·6	39·4	+ 0·3	5	28	4	0·11	−0·38	*	*	*	*
3. ENGLAND, E.	Hillington ⚓	53	26	45·4	33·6	39·7	+ 2·5	10	33	4	0·23	−0·32	8·	+ 0·6	17	0
	Yarmouth	52	29	45·0	34·7	39·1	+ 0·9	8	36	4	0·30	−0·29	*	*	*	*
	Geldeston	54	27	46·5	34·6	40·8	+ 2·6	13	31	4	0·25	−0·26	11·7	+ 1·1	22	+ 2
	Cambridge	54	28	47·6	32·1	40·2	+ 2·8	16	41	2	0·15	−0·27	5·2	− 3·8	10	− 7
	Rothamsted	53	29	47·1	33·4	40·5	+ 2·8	14	35	3	0·19	−0·35	7·0	?	13	?
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	53	29	46·9	34·3	40·9	+ 3·5	14	32	3	0·06	−0·45	*	*	*	*
	Loughborough	54	29	47·3	33·3	40·6	+ 2·8	15	36	6	0·11	−0·39	*	*	*	*
	Stamford (Ketton Hall)	54	26	47·3	32·3	40·1	+ 2·7	15	40	6	0·15	−0·39	*	*	*	*
	Cheadle ⚓	51	30	44·6	35·2	40·1	+ 3·2	7	27	5	0·40	−0·30	*	*	*	*
	Churchstoke ⚓	53	30	48·5	36·7	42·8	+ 4·6	28	15	5	0·21	−0·49	13·4	+ 5·2	26	+10
	Hereford ⚓	54	27	49·6	35·8	43·0	+ 4·3	33	17	4	0·12	−0·40	*	*	*	*
	Cirencester	52	26	46·6	34·4	40·7	+ 3·2	13	31	5	0·14	−0·50	11·3	+ 2·6	21	+ 4
	Oxford	53	30	47·6	36·7	42·4	+ 4·0	25	15	4	0·12	−0·36	7·9	− 0·3	15	− 1
5. ENGLAND, S.	London	55	29	49·0	35·4	42·5	+ 3·1	31	18	2	0·17	−0·30	4·2†	− 0·2†	8†	0†
	North Foreland	55	32	47·7	36·9	42·5	+ 2·7	25	14	2	0·12	?	*	*	*	*
	Strathfield Turgiss ⚓	52	28	47·2	37·3	42·5	+ 4·6	23	13	4	0·22	−0·27	*	*	*	*
	Dungeness	50	28	48·0	36·0	42·2	+ 1·9	27	17	5	0·25	−0·43	*	*	*	*
	Hastings (St. Leonards)	52	31	47·8	39·0	43·6	+ 3·5	24	8	5	0·41	−0·26	7·4	− 4·6	14	− 9
	Southampton	54	31	48·9	40·8	45·0	+ 4·7	26	3	5	0·27	−0·42	10·3	+ 0·5	19	0
	Hurst Castle	51	30	48·9	40·6	44·9	+ 3·8	26	4	6	0·34	−0·30	*	*	*	*
	Stowell ⚓	52	30	47·9	39·0	43·6	+ 4·9	24	8	6	0·56	?	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	55	32	47·7	38·0	43·0	+ 3·0	24	11	7	1·90	−0·22	*	*	*	*
	Glasgow	51	32	44·7	37·9	41·4	+ 3·2	8	17	6	0·62	−0·28	8·3	+ 4·9	17	+10
	Ardrossan	51	34	48·0	37·0	42·7	+ 2·5	26	14	6	0·68	−0·16	*	*	*	*
	Glenlee ⚓	50	30	46·3	36·0	41·4	+ 4·2	12	26	6	1·18	−0·24	*	*	*	*
	Douglas (Isle of Man)	52	33	48·0	39·9	44·1	+ 2·9	24	6	7	1·01	−0·01	7·7	− 2·2	15	− 4
7. ENGLAND, N.W.	Newton Reigny	50	24	45·5	32·4	39·2	+ 2·8	10	38	6	0·63	−0·15	10·3	+ 4·3	21	+ 9
	Stonyhurst	49	31	44·6	36·3	40·6	+ 2·6	7	23	7	1·51	+0·46	7·1	+ 0·9	14	+ 2
	Blackpool ⚓	48	31	46·7	36·6	41·9	+ 3·0	13	24	7	0·54	−0·16	7·8	+ 2.0	15	+ 3
	Manchester	52	33	45·8	36·2	41·2	+ 3·4	11	24	5	0·90	+0·10	*	*	*	*
	Liverpool Obsy. (Bidston)	53	34	49·1	38·0	43·8	+ 4·0	29	11	5	0·34	−0·24	*	*	*	*
	Llandudno ⚓	52	36	49·1	40·6	45·0	+ 3·1	27	4	4	0·41	−0·32	9·7	+ 3·8	19	+ 8
	Holyhead	52	38	49·3	42·0	45·8	+ 2·9	27	0	6	0·50	−0·35	*	*	*	*
8. ENGLAND, S.W.	Llandovery	52	24	48·6	35·3	42·2	+ 1·3	30	19	7	0·84	−0·36	*	*	*	*
	Pembroke	52	40	49·6	44·4	47·1	+ 3·2	36	0	7	0·59	−0·31	11·8	+ 1·4	22	+ 2
	Arlington (N. Devon)	50	29	47·6	38·7	43·3	+ 2·8	23	9	7	1·86	+0·56	*	*	*	*
	Cullompton ⚓	53	27	49·6	38·4	44·2	+ 4·4	31	10	5	0·55	−0·25	9·2	+ 1·6	17	+ 3
	Falmouth	52	38	50·2	44·0	47·3	+ 3·0	37	0	5	0·66	−0·54	13·0	+ 0·9	24	+ 2
	Plymouth	52	35	49·8	42·8	46·4	+ 4·0	31	0	7	0·63	−0·27	?	?	?	?
	Prawle Point	51	30	49·9	41·3	45·8	+ 3·0	30	2	6	0·76	−0·10	*	*	*	*
9. IRELAND, N.	Malin Head	53	36	47·7	40·4	44·2	+ 4·3	22	4	7	0·58	?	*	*	*	*
	Londonderry	53	33	47·6	38·0	43·0	+ 3·5	24	11	6	0·82	−0·08	*	*	*	*
	Edenfel (Omagh)	53	31	47·9	36·6	42·5	+ 4·3	26	15	7	0·92	+0·11	*	*	*	*
	Mullaghmore	54	34	49·4	40·1	44·9	+ 2·6	28	5	7	0·85	−0·17	*	*	*	*
	Belmullet	52	33	49·0	39·9	44·6	+ 0·5	27	6	7	1·01	?	*	*	*	*
	Markree Castle	52	30	48·9	36·8	43·1	+ 4·2	30	15	7	1·07	+0·28	3·2	− 4·8	6	−10
	Brookeborough	51	27	46·4	35·1	41·0	+ 3·6	12	29	7	0·82	−0·10	*	*	*	*
	Armagh	52	31	46·4	37·1	41·9	+ 3·7	12	21	7	0·51	−0·14	4·6	− 3·6	9	− 7
	Donaghadee	54	35	48·4	39·0	43·9	+ 2·8	26	8	7	0·58	−0·07	*	*	*	*
	Edgeworthstown	51	28	47·6	35·1	41·6	+ 3·2	16	30	6	0·70	−0·05	*	*	*	*
10. IRELAND, S.	Dublin	54	32	49·0	39·4	44·4	+ 3·3	28	7	3	0·21	−0·35	14·0	+ 3·0	27	+ 6
	Parsonstown	54	29	50·0	36·6	43·6	+ 4·4	34	15	4	0·29	−0·41	6·5	− 3·4	13	− 6
	Kilkenny	53	28	49·7	36·4	43·3	+ 3·0	33	16	4	0·28	−0·42	*	*	*	*
	Waterford	54	29	49·7	39·4	44·8	+ 2·6	31	7	6	0·36	−0·58	*	*	*	*
	Roche's Point	55	38	51·0	43·7	47·5	+ 3·9	39	0	6	0·68	−0·44	*	*	*	*
	Valencia	54	37	52·0	44·0	48·2	+ 3·1	43	0	7	1·09	−0·26	2·2	−10·6	4	−19
	Killarney	56	34	52·1	43·6	48·0	+ 5·4	42	0	7	0·93	?	*	*	*	*
	Foynes	55	35	51·2	43·6	47·6	+ 6·7	39	0	7	0·75	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	53	39	51·9	44·9	48·5	+ 1·7	46	0	6	0·18	−0·72	*	*	*	*
	Jersey	55	35	51·6	44·0	48·0	+ 4·4	42	0	4	0·60	−0·27	8·4	− 4·4	15	− 8

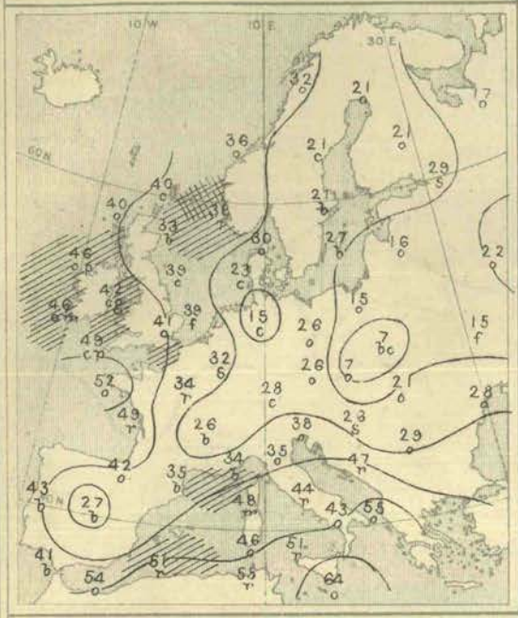
Stations marked ⚓ are in connection with the Royal Meteorological Society, and those marked ⚓ with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

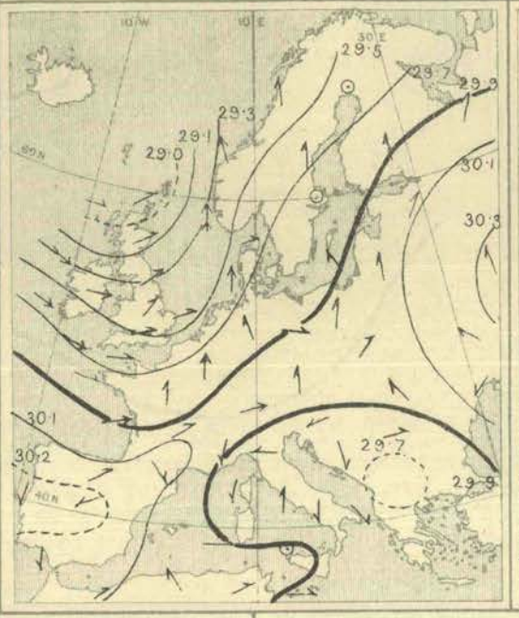
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory and the Meteorological Office, Victoria Street. For additional Reports of Sunshine see last page.

Sunday, 11th December.

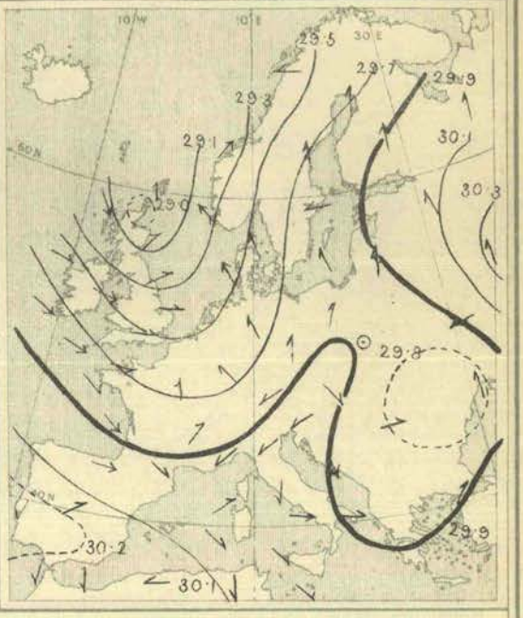
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over Spain and the south of France, and fairer than of late over central and eastern Europe; changeable and unsettled over the United Kingdom, as well as over the Adriatic, Italy, and adjacent parts of the Mediterranean—rainy in several places. Some rain or snow later over the greater part of our Islands, France, and Germany, but amounts small except on our south-western coasts and at the Helder. Heavy snow falling in the south of Russia, and smaller quantities in Austria.

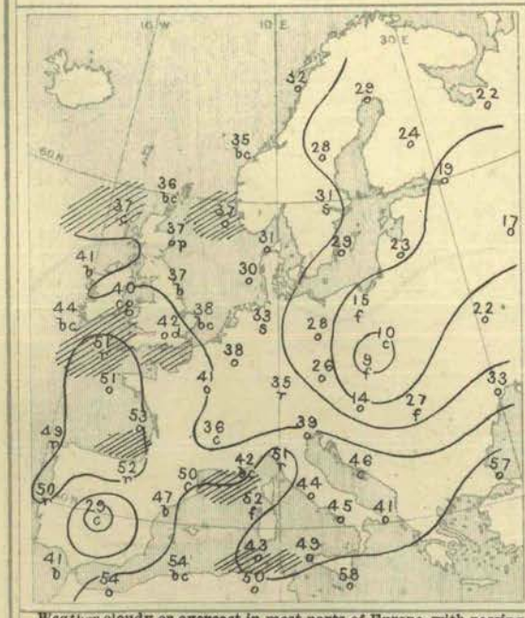
Temperature rising decidedly over northern Europe, changing fitfully elsewhere. Morning readings highest, 64° at Malta, 50° and more on Algerian coasts and in Brittany, 45° to 49° on our south-western coasts. Lowest, (1) 17° at Archangel, 21° at Haparanda, Hernösand, and Kuopio; (2) 7° at Warsaw, 15° at Kiev and Breslau, 23° at Wiesbaden; (3) 33° to 37° in the east of Scotland. Exceeding 40° at all our stations later, reaching 50° and more at Valencia Island, Scilly, Jersey, and in the south-west of France, and exceeding 60° in the south of Italy, the highest reading of all being 64° at Palermo and Malta.

Wind mainly Westerly over the United Kingdom and blowing freshly in the west, Southerly, light, in the east of Scotland, as well as over the North Sea, north Germany, Scandinavia, and Finland; very variable over central Europe, Easterly over northern Italy and the south of France, Westerly in Tunis and Malta, North-Westerly over the south of Italy. Veering North-Westward on our north-western coasts later, and blowing strongly, but backing to South-East in Denmark and the south of Norway, and increasing to a gale at Skudesnaes.

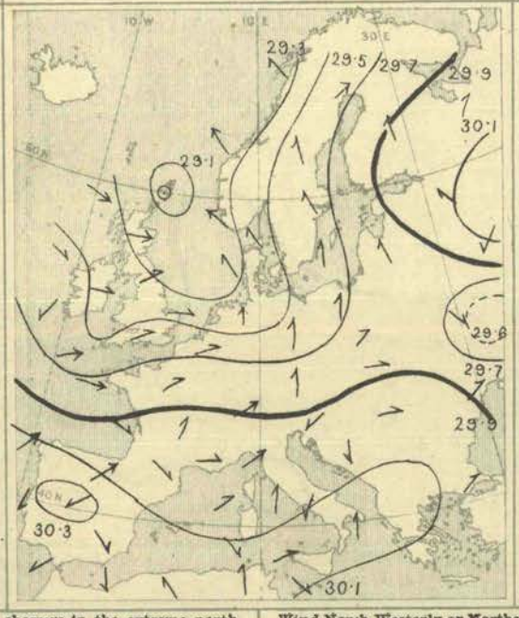
Barometer highest. (1) 30·3 ins. and more to 30·0 ins. in a large anticyclone over central Russia; (2) 30·2 ins. and more to 30·0 ins. over the Spanish Peninsula and south-west of France. Lowest, 29·0 ins. and less over the north of Scotland, the Hebrides, and Shetlands, and 29·8 ins. and less in a complex depression over Italy, the Adriatic, Bosnia, and Montenegro. Rising over Scotland and Ireland later, falling over the North Sea and England. Depression over southern Europe, moving eastwards and becoming less complex.

Monday, 12th December.

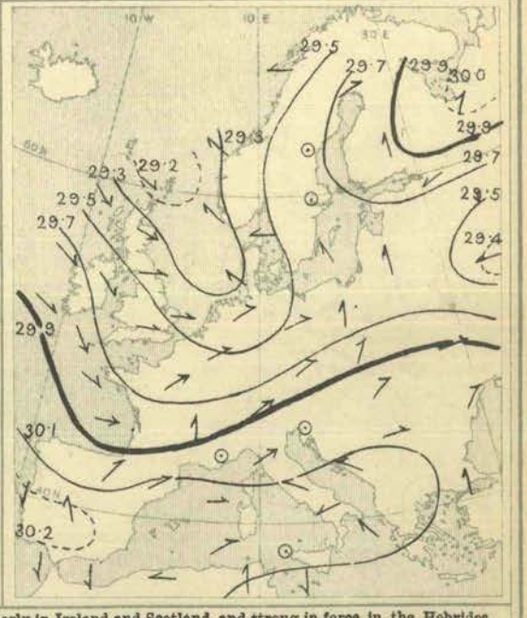
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather cloudy or overcast in most parts of Europe, with passing showers in the extreme north and north-west of our Islands, with steady rain in the south of England, and at some of the northern stations in Spain and Italy, and with snow in Denmark, north Germany, and the south of Sweden. Fine and bright over Ireland, the north of England, and the south of Scotland, as well as in the southern parts of Spain. Sky clearing later in the south of England, but snow or sleet showers falling in the north of Scotland, and heavy rain at some of the French and German stations, as well as in northern Italy, with a thunderstorm at Pesaro.

Temperature fallen slightly in the west of our Islands and quickly at some of the Russian stations, but risen elsewhere. Morning readings highest, 58° at Malta, 54° at Oran and Algiers, and 53° at Nemours, varying between 50° and 52° in the Scilly Islands and west of France. Lowest, 9° at Cracow, 10° at Warsaw, 14° at Buda-Pesth, and 17° at Moscow, below the freezing point in most parts of northern, eastern, and central Europe. Rising during day to 55° or more in Spain, Italy, and the south of France, and reaching 64° at Leghorn and Palermo. Frost occurring in most parts of the United Kingdom at night.

Wind North-Westerly or Northerly in Ireland and Scotland, and strong in force in the Hebrides, Westerly over England, France, and the Netherlands, strong at several of the Channel stations. South-Westerly or Southerly in Germany, South-Easterly over Scandinavia, Denmark, Finland, and the Baltic. Light and variable over Italy and Austria, North-Easterly in Spain, South-Easterly or Southerly in Algeria. Subsequently veering to the North-Westward in the south of England, and becoming light or moderate in force. Increasing to a gale from North-West at Aberdeen.

Barometer highest, 30·3 ins. and upwards over central Spain; 30·1 ins. and upwards in a large anticyclone covering the whole of Spain and the greater part of the Mediterranean as well as in another system lying over central Russia. Lowest, 29·1 ins. and less in a depression near the Shetlands; shallow secondary disturbances lying respectively over the North Sea and the Bristol Channel, 29·6 ins. and less in a well-marked system lying over the south of Russia. Depression near Shetlands, subsequently moving eastwards, secondary disturbance over Bristol Channel travelling south-eastwards to the north of France. Russian depression travelling northwards and becoming deeper.

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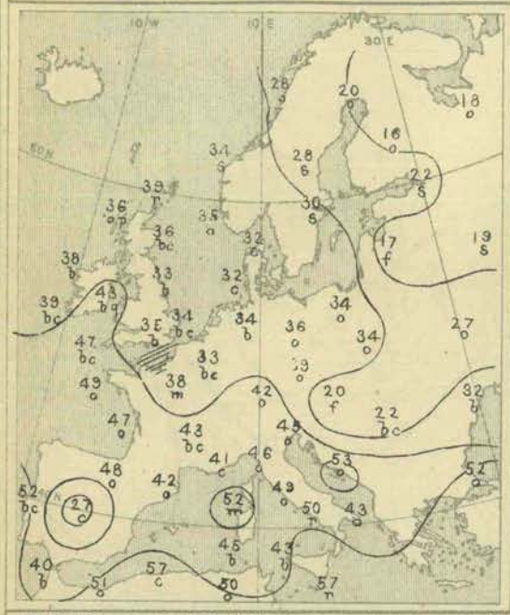
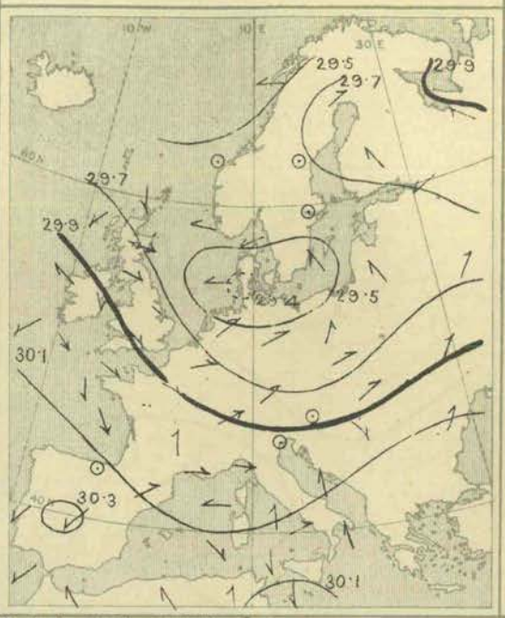
III.—SUMMARY OF WEATHER OVER EUROPE.

Tuesday, 13th December.

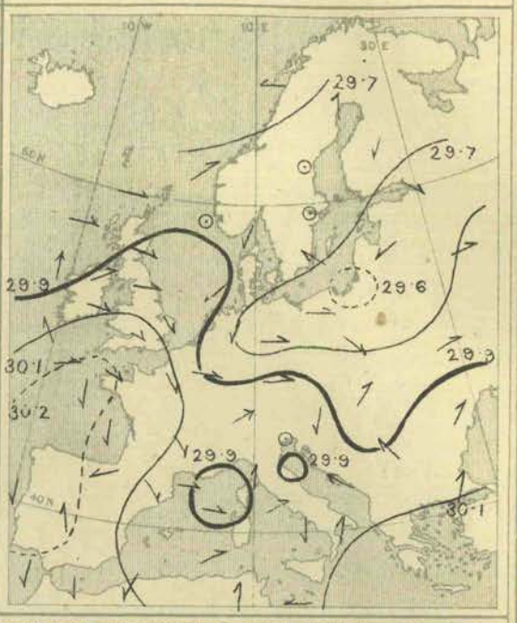
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather fine over the United Kingdom generally, but rainy in the Shetlands and showery in the extreme north of Ireland. Dull at most of the Continental stations, with snow in several parts of Russia and Scandinavia. Cloudy, rainy weather setting in later over Ireland, and spreading quickly to all but our east and south-east stations. Heavy rain (1·1 ins.) falling at Florence.

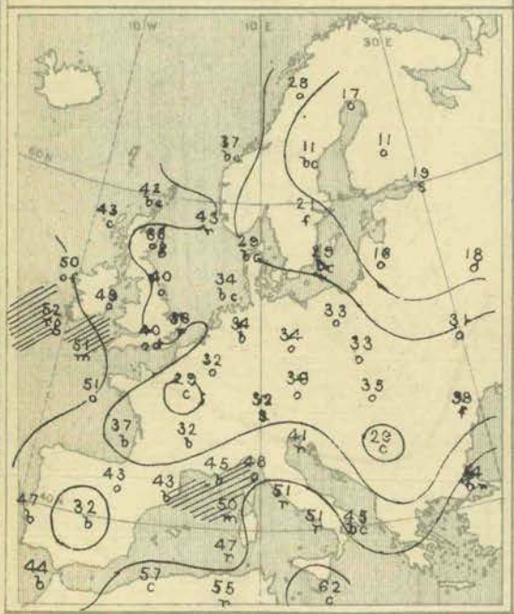
Temperature fallen in most parts of western and northern Europe, and also in the south of Russia, but risen elsewhere,—rapidly over Poland and eastern Germany. Morning readings highest, 57° at Algiers and Malta, 55° at Leghorn, and 53° at Lésina, above 45° in the Channel Islands and the west of France. Lowest, 16° at Kuopio, 17° at Riga, 18° at Archangel, and 19° at Moscow, below the freezing point in most parts of northern and eastern Europe, and very little above it in the eastern and central parts of Great Britain. Daily maxima below 40° in the north and east of our Islands, but above 45° in the south-west, above 50° in Spain, Italy, the west and south of France, and reaching 64° at Malta. Sharp frost over Great Britain in early part of night, followed by rapid thaw.

Wind North-Westerly over our Islands and France, moderate in force in most places, but strong in the north-east of Scotland. Moderate from South-West in Germany, and the central and southern parts of Russia, but light from East or North-East over Denmark, Finland, and the south of Scandinavia. Calm in Austria, variable in Italy, North-Easterly or Easterly in Spain; South-Easterly in Algeria. Subsequently backing to the Southward in Ireland, and to the South-Westward in all the more western parts of Great Britain, but remaining moderate in force.

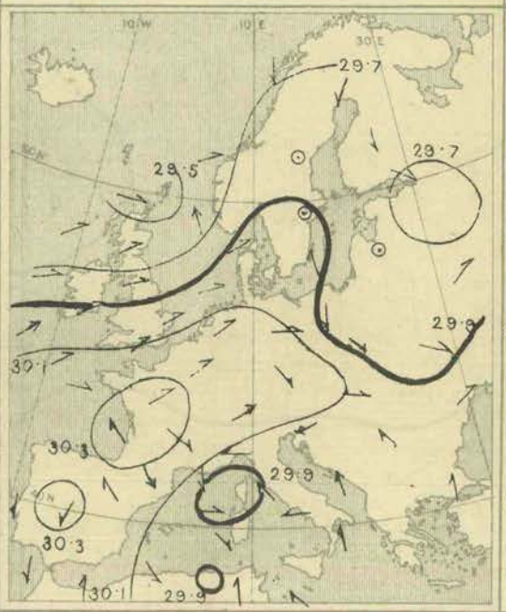
Barometer highest, 30·3 ins. and upwards over central Spain, 30·1 ins. and upwards in a large anticyclone covering the greater part of southern Europe and the Mediterranean. Lowest, 29·40 ins. at Fanö; 29·5 ins. and less in a large depression covering Denmark, the Baltic, north Germany, and the south of Sweden. Depression subsequently moving eastwards, but new disturbance approaching our western coasts, where barometer fell steadily. Small cyclonic systems shown in evening over the Gulf of Genoa and the northern part of the Adriatic.

Wednesday, 14th December.

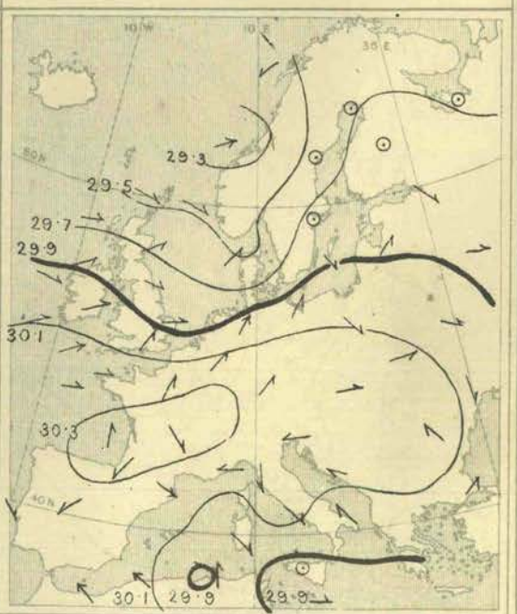
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over south-western and southern Europe, fair in Scotland and Sweden; cloudy or overcast elsewhere, with snow in Finland, rain in many parts of England and Ireland, mist on our south-western and southern coasts. Rain in small quantity later at all the Irish, English, and German stations, and in the Netherlands, and some parts of Scotland, but clear skies prevalent over southern Europe. Heavy rain falling in many parts of Algeria.

Temperature risen fast over the United Kingdom, fallen over France, Germany, and the north of Russia. Morning readings, 62° at Malta, and above 50° on the Algerian coasts generally, as well as in some part of Italy, and on the extreme western and south-western coasts of our Islands; above 40° at most of our own stations. Lowest, (1) 11° at Kuopio and Hernösand, 12° at Uleaborg, 16° at Riga, 18° at Moscow, but above 32° over Germany; (2) 29° at Paris, 31° at Turin, 32° at Lyons. Rising to 50° or more over England and the south of France later, exceeding 55° over the southern parts of Spain and Italy, and reaching 64° at Malta.

Wind (1) Westerly to South-Westerly over Ireland, England, and the southern half of the North Sea, variable but cyclonic in Scotland, South-Easterly at Skudesnaes; variable and anticyclonic over France; Easterly to North-Easterly over southern Europe, North-Westerly to South-Westerly over the eastern part of Algeria and Tunis; very light and variable over Russia. Becoming Westerly over Scotland and Norway later, and increasing from West-South-West over the English Channel.

Barometer highest, 30·3 ins. and upwards to 30·6 ins. over Spain, France, Germany, and the south of England, and exceeding 29·9 ins. in a ridge spreading northwards over Denmark. Lowest, 29·5 ins. and less in a depression over the Shetlands; 29·7 ins. and less near St. Petersburg; 29·9 ins. and less in a depression over Corsica and the Gulf of Genoa. Secondary disturbance found over the North Sea later, but barometer rising on our west and north-west coasts. Depression in neighbourhood of Shetlands, subsequently travelling away to north-eastward, but secondary systems developed over the North Sea.

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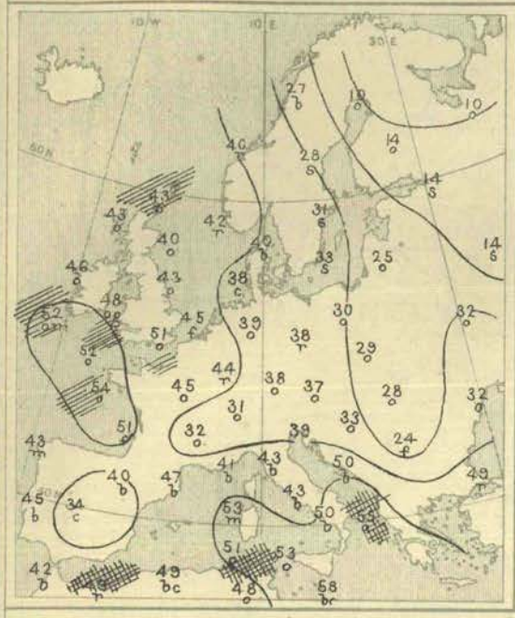
III.—SUMMARY OF WEATHER OVER EUROPE.

Thursday, 15th December.

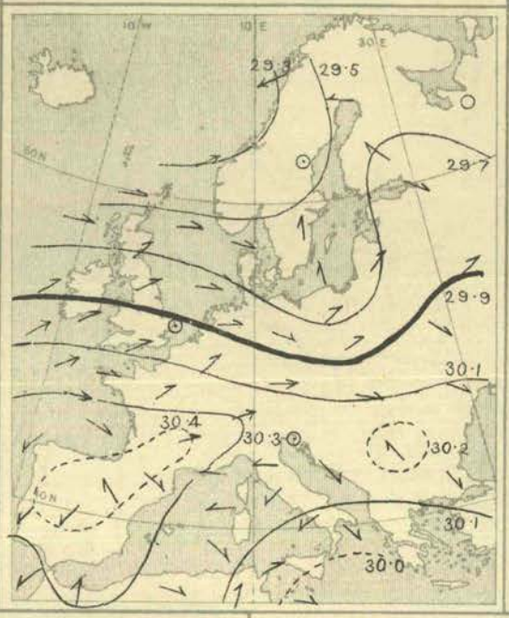
Temperature and Weather.

8 a.m.

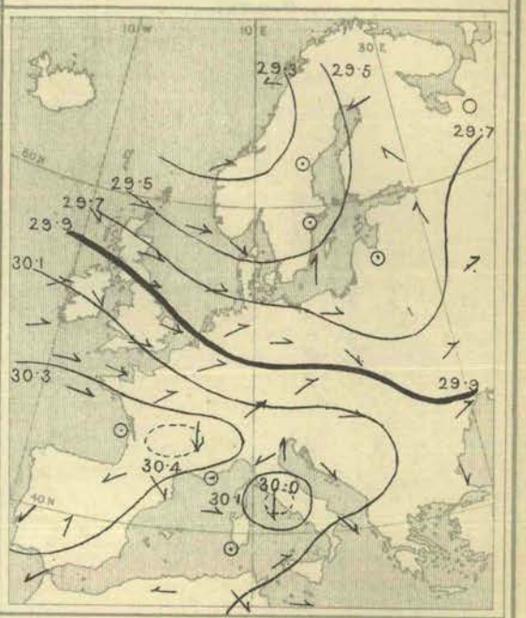


Barometer and Wind.

8 a.m.



6 p.m.



Weather dull in all but the southern counties, with mist or fog in many places, and with rain in the north of Ireland, the west of Norway, and several parts of France, Belgium, and Germany. Snow falling in Sweden, Poland, and central Russia. Sky clearing later in many parts of the United Kingdom, but rain setting in at our western stations at night, and lightning seen at Aberdeen.

Temperature risen quickly in the south-east of England, as well as in Sweden, Belgium, and the northern parts of France, fallen in many other localities. Morning readings highest, (1) 58° at Malta, 55° at Brindisi, and 53° at Palermo; (2) 54° at Jersey and Brest; above 50° over the southern parts of our Islands generally. Lowest, 10° at Archangel and Haparanda, 12° at Uleaborg, and 14° at Kuopio, St. Petersburg, and Moscow; below the freezing point in most parts of Sweden, Russia and Austria. Reaching 55° later at several of our own southern stations, but remaining below that point in the west of France. Exceeding 60° in the southern parts of Spain and Italy, and reaching 68° at Palermo.

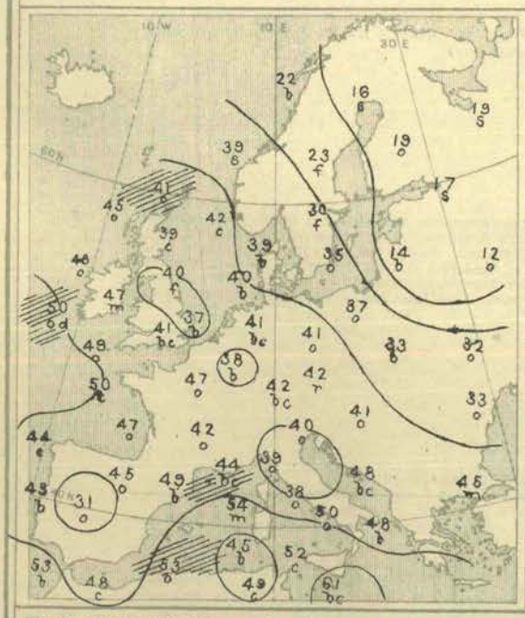
Wind South-Westerly or Westerly in nearly all parts of western and central Europe; light or moderate in force generally, but strong at some of our own south-western stations. Light from the South-Westward in Poland, and from the Southward or South-Eastward over Sweden and the Baltic. Light or moderate from the North-Eastward over Spain, and from the Northward (North-West to North-East) in Italy, chiefly Southerly in Algeria. Subsequently veering to the North-Westward in many parts of Great Britain; no important change occurring elsewhere.

Barometer highest, 30·4 ins. and upwards over central Spain and the southern parts of France; 30·1 ins. and upwards in a large anticyclone covering nearly the whole of central and southern Europe, and extending northwards over the extreme south of England. Lowest, 29·3 ins. and less in a large depression lying off the west of Norway. Depression subsequently moving eastwards, and barometer rising in most of the western countries.

Friday, 16th December.

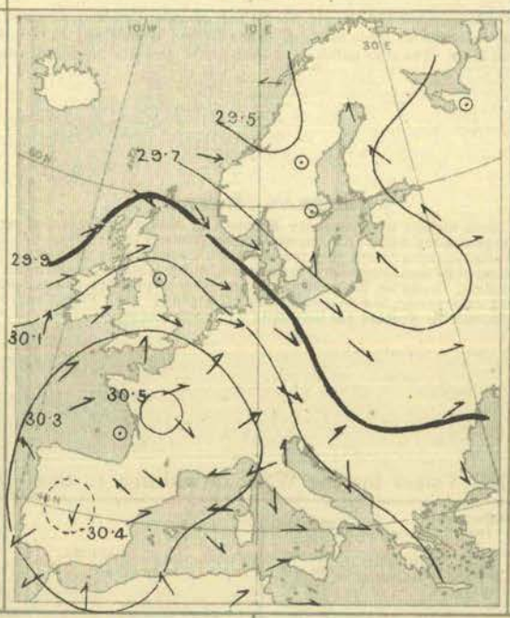
Temperature and Weather.

8 a.m.

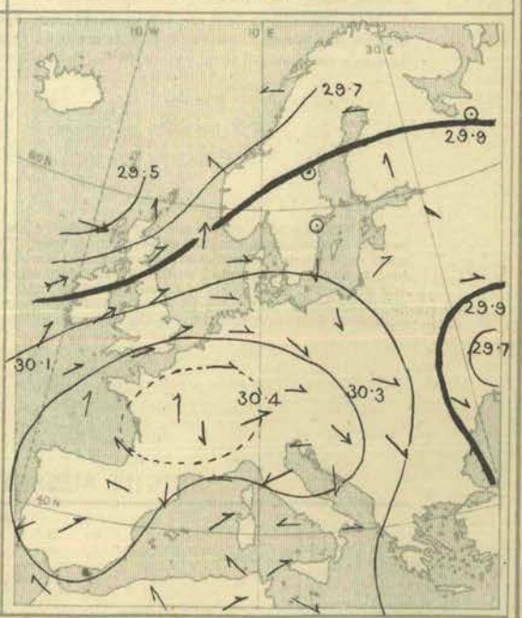


Barometer and Wind.

8 a.m.



6 p.m.



Weather fine over the eastern and south-eastern parts of Great Britain, as well as in Denmark, the Netherlands, Spain, and the extreme south of France. Dull in all other parts of Europe, with mist at several of our western and southern stations, fog in Sweden, and snow at Haparanda, Christiansund, Archangel, St. Petersburg, and Cracow. A little rain falling later at most of our western, southern, and extreme northern stations; weather becoming dull in the east and south-east. Aurora seen at Aberdeen.

Temperature fallen quickly over England, changed little and irregularly elsewhere. Morning readings highest, 61° at Malta, 54° at Sanguinaire, 53° at San Fernando and Algiers; reaching 50° at some of our own extreme western and southern stations. Lowest, 13° at Moscow, 16° at Haparanda, and 17° at St. Petersburg, below the freezing point over Russia and Sweden generally, and very little above it at some of the inland English stations. Rising during day to 50° or a little above it in most parts of the United Kingdom and France, and reaching 60° at Perpignan. Exceeding 60° over the southern parts of Spain and Italy, the highest reading of all being 68° at Palermo.

Wind light to moderate from the South-Westward over the greater part of our Islands, strong from the Westward or North-Westward on the eastern shores of the North Sea, and moderate from the same quarters in Germany. Light Southerly or South-Easterly over Finland and the Baltic Provinces; South-Westerly in Austria and the south of Russia; Northerly or North-Westerly in Italy; North-Easterly in Spain; South-Easterly in Algeria. Subsequently increasing to a moderate or fresh gale from the South-Westward on our extreme north-western coasts, and freshening in most other parts of the Kingdom.

Barometer highest, 30·3 ins. to 30·5 ins. in an anticyclone covering England, France, Spain, and western Germany. Lowest, 29·5 ins. and less in a shallow depression lying over the west of Norway, 29·6 ins. and less in a trough extending south-eastwards over Sweden and the Baltic; 29·9 ins. and less in a disturbance lying to the north-westward of our Islands. Latter system subsequently moving eastwards, and barometer falling quickly on our extreme north and north-west coasts.

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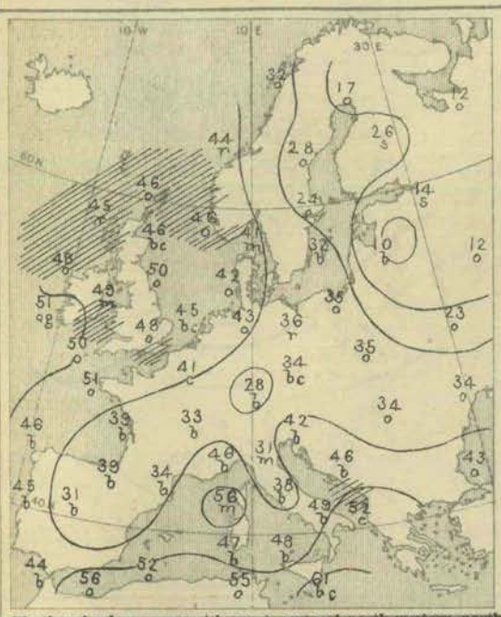
Saturday, 17th December.

Temperature and Weather.

8 a.m.

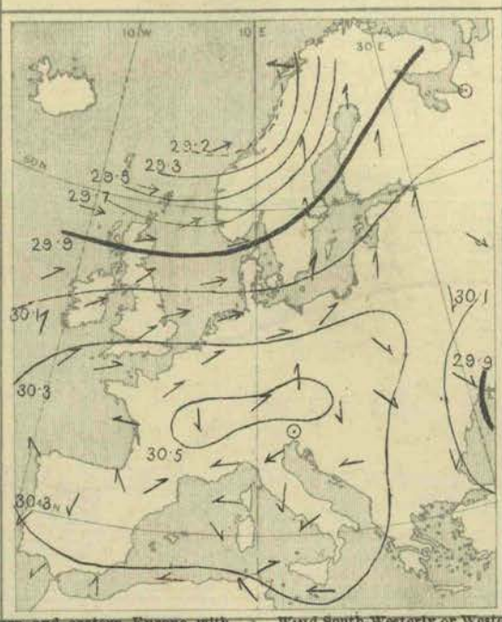


Weather cloudy or overcast in most parts of north-western, northern, and eastern Europe, with rain at Christiansund, Stornoway, and Roche's Point, and with snow at Kuopio and St. Petersburg. Fine and bright in the east and south of Scotland, as well as over the greater part of France and southern Europe, but cloudy at the Algerian stations, with rain at Nemours. Snow falling later over the whole of Finland and the north of Scandinavia, and rain at several of our own western and extreme northern stations.

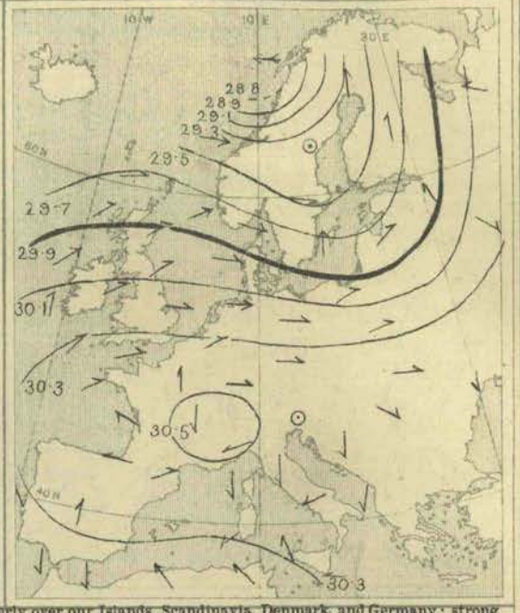
Temperature risen in our Islands and Scandinavia, fallen in France and Germany, changed irregularly elsewhere. Morning readings highest, 61° at Malta, 56° at Sanguinaire and Oran, and 55° at La Calle, reaching 50° or more at some of our own western and northern stations. Lowest, 10° at Riga, 12° at Archangel and Moscow, and 14° at St. Petersburg, below the freezing point at most of the Russian and Swedish stations, as well as in south Germany, northern Italy, and central France. Rising during day to 50° or more in many parts of the United Kingdom, and reaching 55° at Nairn and Leith. Exceeding 60° in the southern parts of Spain and Italy, the highest reading of all being 66° at Palermo.

Barometer and Wind.

8 a.m.



6 p.m.



Wind South-Westerly or Westerly over our Islands, Scandinavia, Denmark, and Germany; strong in force in the north of Scotland, and also on the eastern shores of the North Sea. Light from the Southward over Finland and the Baltic; North-Westerly in Austria and the south of Russia. Light or moderate from the North-Eastward in Spain and Italy, Easterly or South-Easterly in the west of France, and also in Algeria. Subsequently increasing to a strong breeze from between South and West at some of the Baltic stations.

Barometer highest, 30·5 ins. and upwards over Switzerland and the neighbouring parts of France and Germany; 30·3 ins. and upwards in an anticyclone lying over the greater part of central and southern Europe, and extending northwards over the south of England. Lowest, 29·2 ins. and less in a depression lying off the west of Norway. Gradients steep over Scandinavia and the northern parts of the North Sea. Depression subsequently moving north-eastwards, but new disturbance beginning to approach our western coasts in evening.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟿ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze: and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During the past week barometrical pressure has been highest over southern Europe, and lowest in a series of large depressions, the centres of which have travelled eastwards across Scandinavia and northern Russia. The prevailing winds have therefore been Westerly (South-West to North-West), and on the nights of the 15th and 17th, when depressions of considerable depth skirted our extreme northern coasts, they increased to a strong gale in the north of Scotland. During the early part of the time the conditions over western and central Europe were complicated by some secondary disturbances which appeared to the south of the larger systems, and which occasioned heavy rain or snow in many parts of France, Germany, and Austria. Later on, however, the distribution of pressure became more regular, the weather in all the more southern countries being influenced by a large and well-defined anticyclone, the central portion of which lay over France and Spain. Hard frost has prevailed over Russia and its immediate neighbourhood, but in the more western countries the weather has been mild for the time of year.

BRIGHT SUNSHINE Values for the Week in addition to those found on page 296.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	5·6	?	12	?	EASTBOURNE	8·6	?	16	?
OSWALDKIRK (Yorkshire)	13·1	?	26	?	TENBY	14·3*	?	27*	?
WORKSOP	9·5	+ 2·4	18	+ 4	NEWQUAY	11·6	?	21	?
THURCASTON (Leicestershire)	8·9	+ 3·8	17	+ 6	TORQUAY	11·7*	?	21	?
MARGATE	8·5	?	16	?	ARLEY COTTAGE (County Cavan)	6·3	?	12	?
WESTBOURNE (Sussex)	6·6*	?	12	?	GUERNSEY	6·7*	?	12	?
BRIGHTON	7·0	?	13	?					

The values at Westbourne, Tenby, Torquay and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.
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VOL. IX. No. 51.] *Third Series.* WEEK ENDING SATURDAY, 24TH DECEMBER, 1892. [*Price 6d.* [*Annual subscription, post paid, £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years' observations (1871-90). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the ten years 1881-90. RAINFALL.—*The Mean amounts* are those for the corresponding periods in the twenty-five years 1866-90, but the *Mean numbers of Rainy Days* are those for the ten years 1881-90, only. BRIGHT SUNSHINE.—*The Mean values* employed are those for the corresponding periods in the ten years 1881-90.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 302.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1892. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	53	17	41·8	34·8	38·4	1 above.	0	− 5	25	− 7	1718	−153	1026	+274
	1. SCOTLAND, EAST -	57	12	41·4	34·2	38·0	1 above.	0	− 5	28	−11	1985	−371	1156	+338
	2. ENGLAND, N.E. - -	56	19	43·4	37·1	40·4	3 above.	4	− 2	19	−15	2290	−236	912	+229
	3. ENGLAND, EAST -	52	23	42·8	36·6	39·8	2 above.	2	− 5	20	−20	2714	−212	984	+202
	4. MIDLAND COUNTIES	54	15	42·3	35·8	39·2	2 above.	1	− 7	23	−17	2676	−191	1072	+282
	5. ENGLAND, SOUTH -	50	26	43·3	38·5	41·0	2 above.	4	− 8	14	−16	3053	−160	675	+100
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	53	18	44·0	38·0	41·2	2 above.	6	− 3	17	−10	2203	−251	824	+248
	7. ENGLAND, N.W. -	53	25	43·7	38·4	41·2	2 above.	5	− 4	15	−14	2485	−180	726	+169
	8. ENGLAND, S.W. -	52	30	45.6	41·6	43.6	2 above.	13	− 2	1	−20	2886	−149	513	+ 99
	9. IRELAND, NORTH -	55	31	46·8	42·1	44·6	5 above.	18	+ 7	0	−26	2442	−183	622	+11
	10. IRELAND, SOUTH -	58	38	49·8	45·2	47·6	6 above.	39	+21	0	−21	2908	−102	516	+121
	— CHANNEL ISLANDS -	54	34	48·0	43·4	45·8	1 above.	27	+ 2	0	− 7	3543	+ 37	173	+ 30

Rainfall.

	DISTRICTS. (See p. 302.)	For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1892. Number of Rainy Days.	Difference from Mean.	Total Fall.	Difference from Mean.
			10ths of In.	10ths of In.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	4	2	11 less.	252	+12	50·0	+ 1·2
	1. SCOTLAND, EAST -	3	2	5 less.	200	+ 4	28·1	− 3·4
	2. ENGLAND, N.E. - -	2	1	4 less.	196	+13	25·4	− 1·1
	3. ENGLAND, EAST -	0	—	5 less.	179	− 2	27·1	+ 1·2
	4. MIDLAND COUNTIES-	0	—	6 less.	176	− 1	23·6	− 4·2
	5. ENGLAND, SOUTH -	0	—	6 less.	160	−13	24·6	− 3·1
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	3	2	11 less.	205	− 1	46·7	− 3·5
	7. ENGLAND, N.W. - -	2	1	7 less.	205	+12	36·9	+ 2·0
	8. ENGLAND, S.W. - -	1	1	9 less.	192	− 9	31·2	− 9·8
	9. IRELAND, NORTH -	4	2	6 less.	231	+ 6	38·3	+ 1·6
	10. IRELAND, SOUTH -	4	6	3 less.	201	− 5	39·7	+ 0·9
	— CHANNEL ISLANDS -	2	3	5 less.	194	−21	29·6	− 4·1

Bright Sunshine.

	DISTRICTS. (See p. 302.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1892. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	2	− 5	4	−11	1107	− 41	25	− 2
	1. SCOTLAND, EAST -	7	+ 2	14	+ 4	1324	− 12	30	− 1
	2. ENGLAND, N.E. - -	8	+ 1	16	+ 4	1289	+ 54	30	+ 2
	3. ENGLAND, EAST -	9	+ 1	17	+ 2	1521	+ 18	35	0
	4. MIDLAND COUNTIES-	5	− 3	9	− 6	1455	+114	33	+ 2
	5. ENGLAND, SOUTH -	6	− 4	10	− 8	1666	+211	38	+ 5
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	1	− 6	2	−11	1418	+101	32	+ 2
	7. ENGLAND, N.W. - -	6	− 1	12	0	1416	+114	33	+ 3
	8. ENGLAND, S.W. - -	3	− 8	5	−14	1694	+118	39	+ 3
	9. IRELAND, NORTH -	3	− 5	6	− 9	1296	+ 71	30	+ 2
	10. IRELAND, SOUTH -	1	−10	2	−18	1433	+ 5	33	0
	— CHANNEL ISLANDS -	4	− 7	7	−13	1953	+103	45	+ 2

Bright Sunshine.—For several of the stations there are no "mean" values available, and the "difference from the mean" in some of the districts is consequently that of only a few of the stations.

General Remarks.

Weather was mild during the greater part of the period, but towards its close it became much colder. During the middle part of the week thick fog prevailed in the east and south-east. Very little or no rain was experienced except in the extreme north and west.

Temperature was above the mean in all districts, the excess varying from between 1° and 3° in Great Britain to as much as 5° or 6° over Ireland. The highest of the maxima were recorded on the first day of the period, and varied from 50° in England S. to 57° in Scotland E., and 58° in Ireland S. The lowest of the minima were registered, as a rule, on the 24th, and ranged from 12° in Scotland E., 15° in the Midland Counties, 17° in Scotland N., 18° in Scotland W., and 19° in England N.E. to 31° in Ireland N., 34° in the Channel Islands, and to 38° in Ireland S. During the earlier part of the week the night minima were very high for the time of year.

Rainfall was less than the mean in all districts. Over the greater part of England the fall was scarcely appreciable.

Bright Sunshine was very deficient generally, the possible amount of duration ranging from 17 in England E. and 16 in England N.E., to only 2 in Ireland S. and Scotland W.

Barometer and Wind.—At the commencement of the week a large and deep depression was moving North-Eastwards to the northward of Scotland, causing strong Westerly winds or gales in all the more northern parts of our Islands. As this system moved away the distribution of pressure over the United Kingdom gradually became anticyclonic, and although some depressions appeared subsequently off our south-western coasts, they did not advance over us. South-Easterly and Easterly winds consequently became very general; they occasionally blew freshly on our southern coasts, and attained the force of a gale in the south of Ireland on the 23rd and 24th.

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II.—DATA from which the SUMMARY on page 301 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°				Inches	Inches.				
0. SCOTLAND, N.	Sumburgh Head	47	30	40·4	34·6	37·6	− 1·5	0	31	3	0·18	−0·78	*	*	*	*
	Stornoway	49	27	42·4	35·0	38·9	+ 0·3	1	26	4	0·13	−1·13	1·4	− 4·6	3	−11
	Wick	48	32	42·6	36·9	39·9	+ 2·5	2	19	3	0·21	−0·47	*	*	*	*
	Lairg Ⓢ	53	17	42·6	31·6	37·3	+ 1·6	2	38	5	0·17	−0·70	*	*	*	*
	Glencarron Ⓢ	52	22	40·3	32·7	36·7	− 0·5	0	37	3	0·44	−1·72	*	*	*	*
	Fort Augustus Ⓢ	52	30	40·4	36·5	38·5	+ 0·5	0	25	4	0·11	−0·94	0·3	?	1	?
	Fort William Ⓢ	52	24	44·0	36·1	40·2	+ 1·0	6	23	5	0·19	−1·90	4·0	?	9	?
1. SCOTLAND, E.	Nairn	57	21	41·6	33·6	37·8	+ 0·4	0	29	3	0·09	−0·35	*	*	*	*
	Aberdeen	50	33	42·3	37·3	39·9	+ 2·8	1	17	4	0·23	−0·47	10·3	+ 1·3	23	+ 4
	Braemar Ⓢ	51	12	39·8	31·0	35·6	+ 1·4	0	45	3	0·11	−0·55	6·0†	?†	13†	?†
	Ochtertyre Ⓢ	51	14	40·3	30·3	35·5	− 0·5	0	46	4	0·28	−0·70	*	*	*	*
	Leith	52	26	42·7	36·9	39·9	+ 0·9	2	19	3	0·12	−0·30	*	*	*	*
	Marchmont Ⓢ	49	29	41·9	36·0	39·1	+ 2·9	0	20	2	0·36	−0·33	3·0	?	6	?
2. ENGLAND, N.E.	Alnwick Castle	51	19	42·1	33·9	38·2	+ 0·8	0	30	2	0·26	−0·42	*	*	*	*
	Durham	55	23	44·5	35·3	40·1	+ 3·4	7	27	3	0·14	−0·48	8·8	0·0	19	+ 1
	Shields	56	29	44·3	38·1	41·3	+ 3·0	6	16	2	0·06	−0·49	*	*	*	*
	Scarborough Ⓡ												*	*	*	*
	York	54	29	44·0	39·1	41·7	+ 4·5	6	13	0	—	−0·50				
	Spurn Head	50	33	42·1	35·0	40·6	+ 1·8	0	11	2	0·18	−0·27	*	*	*	*
3. ENGLAND, E.	Hillington Ⓡ	50	24	42·2	35·8	39·1	+ 2·2	1	23	0	—	−0·52	7·3	− 1·0	14	− 3
	Yarmouth	49	31	42·6	38·6	40·7	+ 3·2	2	13	0	—	−0·60	*	*	*	*
	Geldeston	50	28	43·4	36·9	40·3	+ 2·6	4	20	0	—	−0·47	11·9	+ 1·2	23	+ 3
	Cambridge	52	24	44·4	36·3	40·5	+ 3·3	7	23	0	—	−0·40	11·3	+ 2·3	22	+ 5
	Rothamsted	49	23	41·5	35·4	38·6	+ 1·3	0	24	0	—	−0·58	3·5	?	7	?
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	54	15	42·9	31·7	37·5	+ 0·3	3	38	0	—	−0·52	*	*	*	*
	Loughborough	52	25	43·9	37·3	40·7	+ 3·3	5	18	0	—	−0·52	*	*	*	*
	Stamford (Ketton Hall)	51	24	42·7	36·3	39·6	+ 2·6	2	21	0	—	−0·50	*	*	*	*
	Cheadle Ⓡ	52	24	42·4	35·9	39·3	+ 2·9	1	23	0	—	−0·71	*	*	*	*
	Churchstoke Ⓡ	52	26	43·0	36·7	40·0	+ 2·3	3	20	0	—	−0·68	1·6	− 6·8	3	−13
	Hereford Ⓡ	51	26	41·9	36·2	39·2	+ 1·0	0	20	0	—	−0·52	*	*	*	*
	Cirencester	49	28	40·6	36·0	38·4	+ 1·2	0	25	0	—	−0·65	3·0	− 5·8	6	−11
	Oxford	50	27	41·1	36·3	38·8	+ 0·6	0	22	0	—	−0·47	0·5	− 7·8	1	−15
5. ENGLAND, S.	London	49	27	43·6	36·9	40·4	+ 1·4	4	20	0	—	−0·50	1·2†	− 3·2†	2†	− 6†
	North Foreland	48	31	42·6	39·3	41·0	+ 1·6	2	10	0	—	?	*	*	*	*
	Strathfield Turgiss Ⓡ	47	26	40·3	35·4	38·0	+ 0·4	0	28	0	—	−0·49	*	*	*	*
	Dungeness	49	30	43·4	39·6	41·6	+ 1·7	4	10	1	0·01	−0·67	*	*	*	*
	Hastings (St. Leonards)	49	32	44·7	38·5	41·7	+ 1·8	8	15	0	—	−0·65	10·7	− 2·0	20	− 3
	Southampton	50	29	44·0	38·3	41·3	+ 1·4	6	15	0	—	−0·72	2·4	− 8·3	4	−15
	Hurst Castle	49	35	45·9	41·6	43·8	+ 3·1	14	1	0	—	−0·63	*	*	*	*
	Stowell Ⓡ	47	30	41·7	38·0	39·9	+ 1·6	0	15	1	0·01	?	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	52	28	46·6	39·4	43·2	+ 3·3	19	7	4	0·29	−1·79	*	*	*	*
	Glasgow	51	27	43·6	38·1	41·0	+ 2·9	4	16	3	0·17	−0·75	1·4	− 2·1	3	− 4
	Ardrossan	50	26	42·7	37·0	40·0	− 0·1	2	19	4	0·06	−0·82	*	*	*	*
	Glenlee Ⓢ	51	18	41·7	33·9	38·0	+ 0·8	0	28	3	0·06	−1·37	*	*	*	*
	Douglas (Isle of Man)	53	34	45·6	41·4	43·6	+ 2·7	14	2	3	0·15	−0·87	0·3	− 9·1	1	−18
7. ENGLAND, N.W.	Newton Reigny	51	25	42·4	36·5	39·6	+ 3·6	1	21	1	0·02	−0·77	11·2	+ 5·2	23	+11
	Stonyhurst	49	26	41·7	36·5	39·3	+ 1·9	0	19	2	0·54	−0·45	2·2	− 3·8	4	− 8
	Blackpool Ⓡ															
	Manchester	52	27	44·0	37·6	41·0	+ 3·7	6	18	1	0·02	−0·78	*	*	*	*
	Liverpool Obsy. (Bidston)	53	29	43·4	39·6	41·6	+ 2·0	4	10	1	0·02	−0·56	*	*	*	*
	Llandudno Ⓡ	52	30	45·2	39·3	42·4	+ 0·8	14	8	3	0·05	−0·63	? 4·9	? −0·9	? 10	? − 1
	Holyhead	51	32	45·6	41·1	43·4	+ 0·8	14	3	1	0·01	−0·83	*	*	*	*
8. ENGLAND, S.W.	Llandovery	49	30	43·6	38·1	41·0	+ 0·4	4	16	1	0·04	−1·18	*	*	*	*
	Pembroke	50	37	46·1	43·6	44·9	+ 1·5	20	0	0	—	−0·89	2·8	− 7·7	5	−15
	Arlington (N. Devon)	46	33	42·9	39·0	40·5	+ 0·3	3	8	1	0·02	−1·21	*	*	*	*
	Cullompton Ⓡ	49	33	44·8	40·0	42·5	+ 3·2	12	6	0	—	−0·78	0·9	− 8·0	0	−14
	Falmouth	51	41	48·3	45·0	46·7	+ 2·8	33	0	3	0·66	−0·54	5·0	− 7·3	9	−13
	Plymouth	52	39	47·2	43·1	45·2	+ 3·3	22	0	2	0·09	−0·81	?	?	?	?
	Prawle Point	50	38	46·0	42·7	44·4	+ 2·3	17	0	1	0·01	−0·81	*	*	*	*
9. IRELAND, N.	Malin Head	48	34	44·4	41·9	43·2	+ 3·7	9	0	3	0·43	?	*	*	*	*
	Londonderry	53	36	47·4	40·9	44·3	+ 4·9	21	3	4	0·34	−0·54	*	*	*	*
	Edenfel (Omagh)	50	33	44·4	41·0	42·8	+ 5·1	10	3	5	0·18	−0·62	*	*	*	*
	Mullaghmore	52	37	47·3	44·6	46·3	+ 4·2	30	0	3	0·18	−0·82	*	*	*	*
	Belmullet	51	38	47·7	44·4	46·1	+ 2·6	29	0	6	0·33	?	*	*	*	*
	Markree Castle	53	36	47·6	41·8	44·8	+ 6·0	20	1	5	0·10	−0·70	2·4	− 6·1	5	−11
	Brookeborough	52	35	47·2	41·7	44·6	+ 7·4	19	1	3	0·12	−0·78	*	*	*	*
	Armagh	53	33	46·8	40·9	44·0	+ 5·8	19	3	1	0·02	−0·60	4·0	− 4·0	8	− 8
	Donaghadee	55	38	47·1	43·9	45·6	+ 4·7	25	0	3	0·06	−0·58	*	*	*	*
	Edgeworthstown	52	31	47·6	40·1	44·0	+ 6·1	22	5	3	0·23	−0·47	*	*	*	*
10. IRELAND, S.	Dublin	56	38	49·7	43·9	46·9	+ 6·0	32	0	1	0·04	−0·48	2·3	− 8·5	5	−16
	Parsonstown	54	38	48·1	42·9	45·6	+ 6·6	25	0	2	0·19	−0·51	0·0	−10·1	0	−19
	Kilkenny	54	39	46·6	43·3	45·0	+ 5·1	21	0	3	0·15	−0·58	*	*	*	*
	Waterford	51	41	47·9	44·3	46·4	+ 4·6	31	0	5	0·90	− 0·04	*	*	*	*
	Roche's Point	52	45	50·3	47·3	48·9	+ 5·4	48	0	4	1·00	−0·14	*	*	*	*
	Valencia	54	46	52·7	48·3	50·8	+ 5·7	60	0	6	1·52	+0·15	0·0	−10·9	0	−19
	Killarney	54	45	51·5	47·2	49·4	+ 7·2	52	0	6	0·88	?	*	*	*	*
	Foynes	58	38	51·4	43·9	47·8	+ 6·8	41	0	4	0·17	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	54	45	51·3	46·3	48·9	+ 2·6	48	0	3	0·59	−0·31	*	*	*	*
	Jersey	49	34	44·6	40·4	42·6	− 0·5	11	4	1	0·05	−0·77	6·3	− 7·1	11	−13

Stations marked Ⓡ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

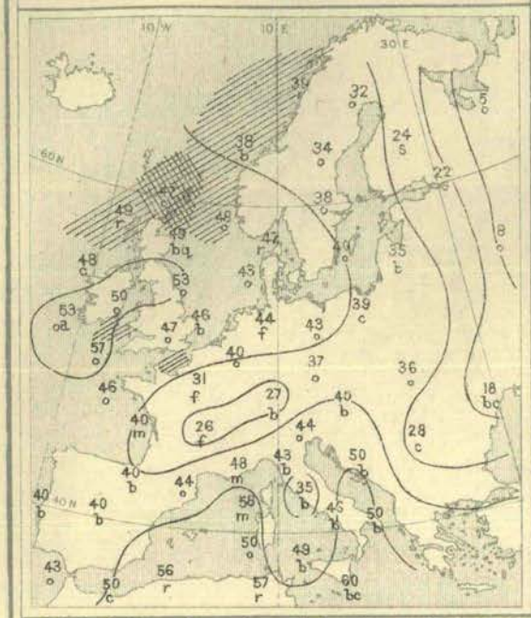
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory and the Meteorological Office, Victoria Street. For additional Reports of Sunshine see last page.

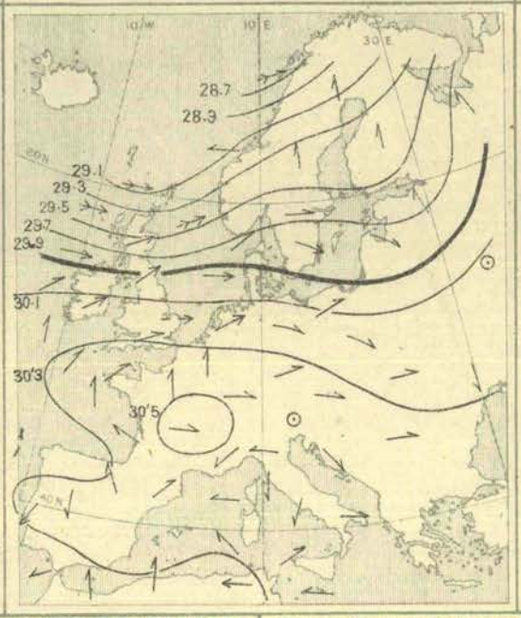
III.—SUMMARY OF WEATHER OVER EUROPE.

Sunday, 18th December.

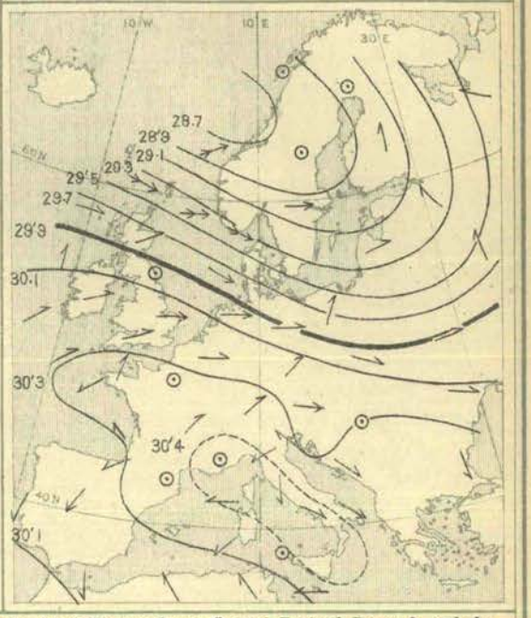
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather dull over the greater part of western, northern, and central Europe, foggy and misty in France, rainy in the Hebrides, as well as at several of the Scandinavian, Danish, and north German stations, and snow in Finland. Fine and bright in the east of Scotland, and also in Spain, Italy, and the extreme south of France, but dull and rainy in Algeria. A little rain falling later in the extreme west and north of our Islands generally, a larger fall at Christiansund, and snow and rain showers in Russia.

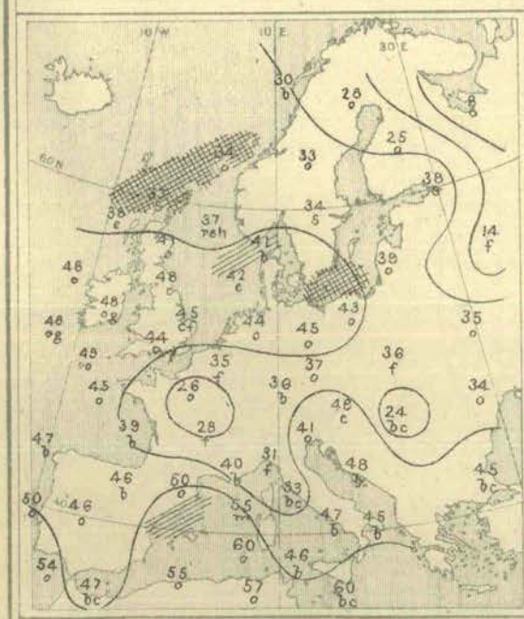
Temperature fallen a little in many parts of France, Russia, and southern Europe, but risen elsewhere. Morning readings highest, (1) 60° at Malta, 57° at La Calle and Tunis, and 56° at Algiers; (2) 54° at Donaghadee, and 53° at Shields and Valencia Island; reaching 50° or more at several of our western and northern stations. Lowest, 5° at Archangel, 7° at Kharkov, 8° at Moscow, and 16° at Nicolaieff, below the freezing point over nearly the whole of Russia, south Germany, and central France. Rising during day as high as 56° at Shields and 57° at Nairn, where weather was as mild as in the extreme south of France. Maximum reading at Paris only 33°, at Brindisi 55°, at Malta 61°, and at Tunis 68°.

Wind moderate to fresh from the South-Westward over Ireland, England, Denmark, and the Netherlands; strong to a gale from the Westward over Scotland and the south of Norway—gale severe in the Shetlands. Moderate to strong from the Westward over the Baltic and eastern Germany, and light from the same quarter in Austria, but Southerly or South-Easterly over the northern parts of Sweden and Russia. Light from the Eastward or South-Eastward in the west of France. North-Easterly in Spain; Northerly or North-Westerly in Italy; Southerly or South-Easterly in Algeria. Gale continuing in extreme north of Scotland all day, and spreading to many of the Scandinavian and some of the Baltic stations.

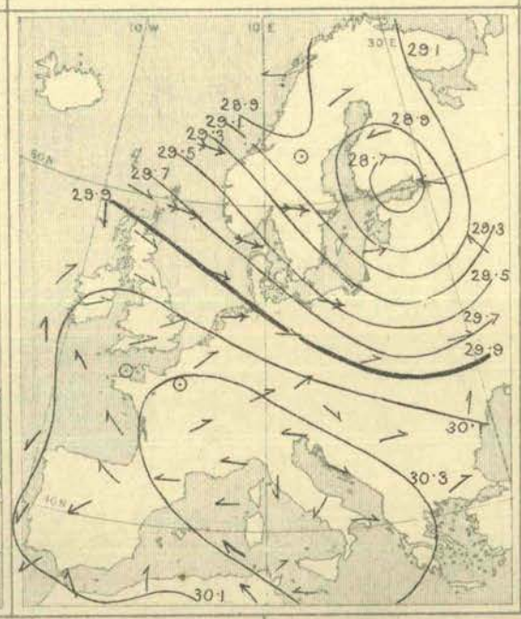
Barometer highest, 30·5 ins. and upwards over central France, 30·3 ins. and upwards in an anticyclone covering nearly the whole of central and southern Europe, and spreading northwards as far as the extreme south of England. Lowest, 29·1 ins. and less in a deep depression lying to the northward of Scotland, and also in another well-marked system over the north of Sweden. Gradients steep over the northern parts of Scotland and the North Sea. Former disturbance subsequently travelling quickly in an east-north-easterly direction, but barometer beginning to fall again in the west of Ireland in evening.

Monday, 19th December.

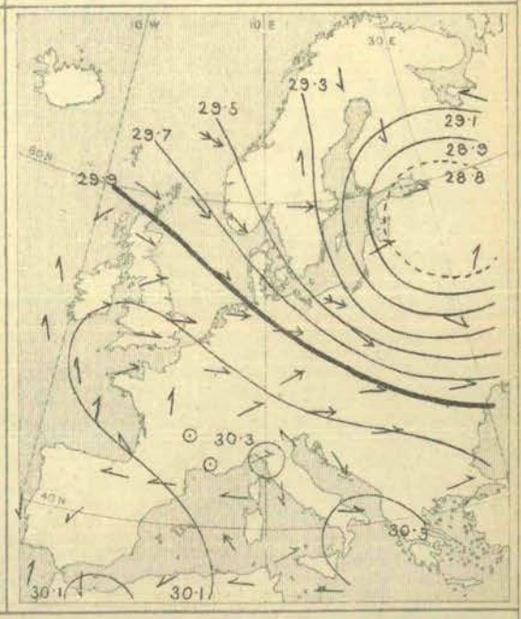
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Wind in morning fine and bright over Italy and the Adriatic, as well as in the north of Spain, the south-west of France, and at Bodö; cloudy or overcast elsewhere—very gloomy, but dry, over the British Islands, very unsettled over the Baltic, Finland, and the northern half of Russia. Snow at St. Petersburg and Stockholm, cold rain at Hangö. Very slight showers at some of our western and northern stations later and in Germany; considerable snow at Hernösand, and heavy falls on the shores of the Gulf of Lion; sky continuously overcast at most of our own stations.

Temperature fallen somewhat decidedly over Great Britain and France. Morning readings 60° at Malta, 60° and more on the coasts of Algeria, the south of Spain, and at York, 49° at Scilly and Roche's Point. Lowest, (1) 8° at Archangel, 14° at Moscow, 25° at Kuopio, 28° at Haparanda; (2) 24° at Le Mans, 26° at Paris, 30° at Turin; (3) 33° at Sumburgh Head, 37° at Wick. Rising to between 50° and 52° at several of the Irish stations later and in the south-west of France, to 66° at Palermo, and 68° at Nemours; not exceeding 41° in the north-east of Scotland.

Wind mainly North-Easterly to Easterly over southern Europe and the Bay of Biscay, South-Easterly to Southerly on our southern and western coasts. South-Westerly in the north-west, Westerly over England; light to moderate in all these regions. Northerly to North-Westerly, moderate, at our most northern stations and blowing a gale from the Westward and North-Westward over the southern half of Scandinavia, the Baltic, and Baltic Provinces; South-Easterly, light at Moscow, Easterly at Bodö. Becoming Southerly all over Ireland and the Irish Sea later, but remaining light.

Barometer highest, 30·4 ins. and more to 30·1 ins. all over France, south Germany, Austria, the Mediterranean, Spain, and the southern half of England. Lowest, 28·9 ins. and less over the north of Scandinavia, and 28·7 ins. in a depression having its centre near St. Petersburg. Gradients steep over Scandinavia, Denmark, the Baltic, and Germany, slight in the west and south. Falling a little in our Islands later, most in the west, rising over Norway and Sweden.

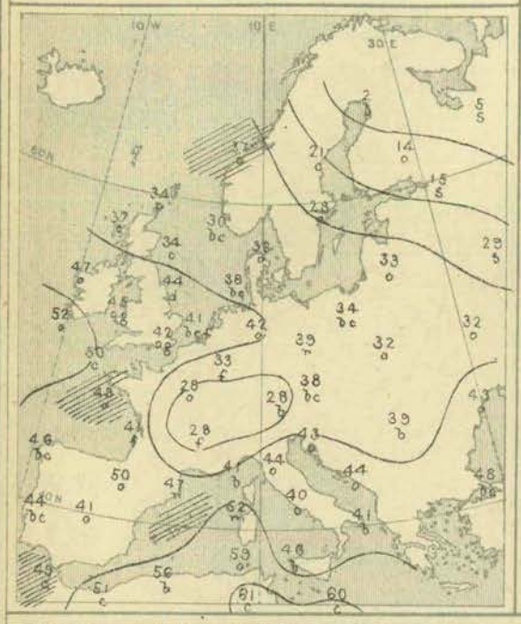
Jedd & Co Lth, Lith. 63 Carter Lane, Doctors' Commons.

III.—SUMMARY OF WEATHER OVER EUROPE.

Tuesday, 20th December.

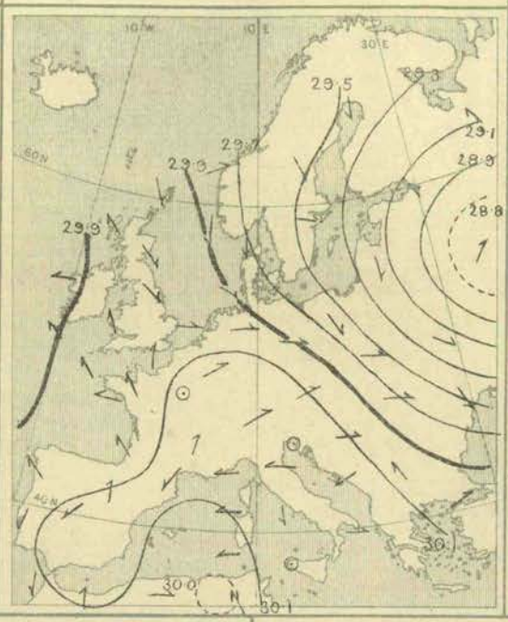
Temperature and Weather.

8 a.m.

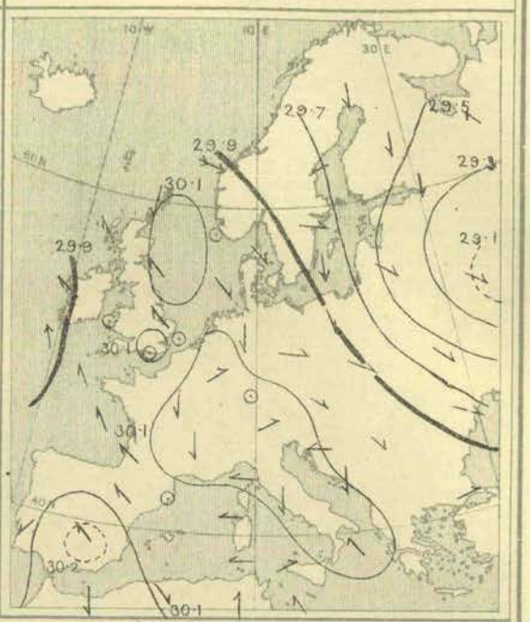


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over south Germany, Austria, at some stations on the southern side of the Mediterranean, over the Spanish Peninsula and Lapland, foggy over Switzerland and northern Italy, dull, gloomy, and hazy in our Islands; overcast and very unsettled in Russia, with snow in many places, rain at Berlin. Very slight rain showers over the northern half of our Islands later, and considerable falls at Valencia and Christiansund. Gloomy or hazy over the greater part of England; snow falling at several of the Scandinavian stations.

Temperature showing some further fall over the greater part of the British Islands, but still high for time of year. Highest readings, 50° to 60° at many of the southern, eastern, and central stations in the Mediterranean, 50° to 52° on our own south-western coasts. Below 40° over Scotland and at all the stations over central Europe; lowest of all, (1) 2° at Haparanda, 5° at Archangel, 15° at St. Peter-burg, 29° at Moscow; (2) 26° at Belfort, 28° at Munich, Lyons, and Paris. Ranging from 57° at Biarritz to between 54° and 50° in the west and south-west of our Islands later, but scarcely exceeding 40° on our north and north-east coasts. Reaching 60° or more in the extreme south of Italy.

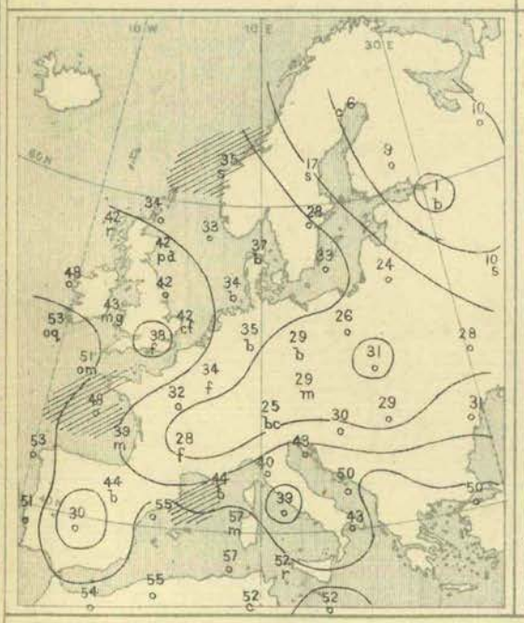
Wind light or moderate from the South-Eastward in the west and extreme north of our Islands, and also in the west of France, but light from the North-Westward on our east coasts, and moderate to strong from the same quarter over Scandinavia, Denmark, the Baltic, and the greater part of Russia. Westerly or South-Westerly in Germany, variable in Italy and Algeria; North-Easterly in Spain and the south of France. No important change occurring during day.

Barometer highest, 30·2 ins. over Italy and Switzerland; 30·1 ins. in an anticyclone lying over the greater part of France and southern Europe; 30·0 ins. and upwards in a ridge extending thence over Great Britain. Lowest, 28·8 ins. in a well-marked depression lying over central Russia, with steep gradients to the westward and southward of the disturbance. Changes over western Europe very slight during day, but ridge of high readings over Great Britain increasing considerably in size. Depression over central Russia beginning to fill up.

Wednesday, 21st December.

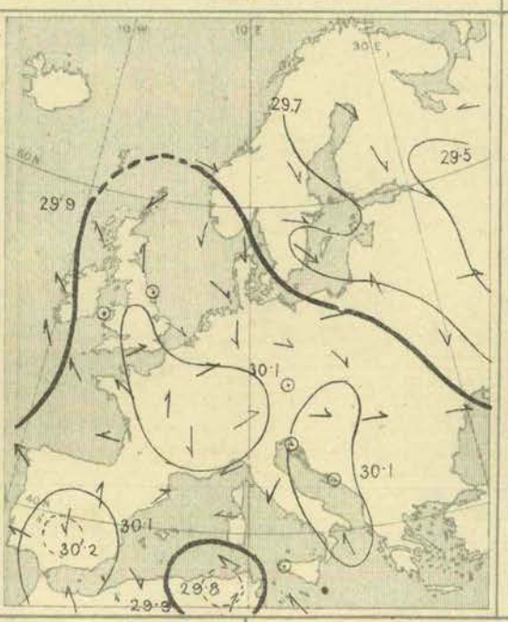
Temperature and Weather.

8 a.m.

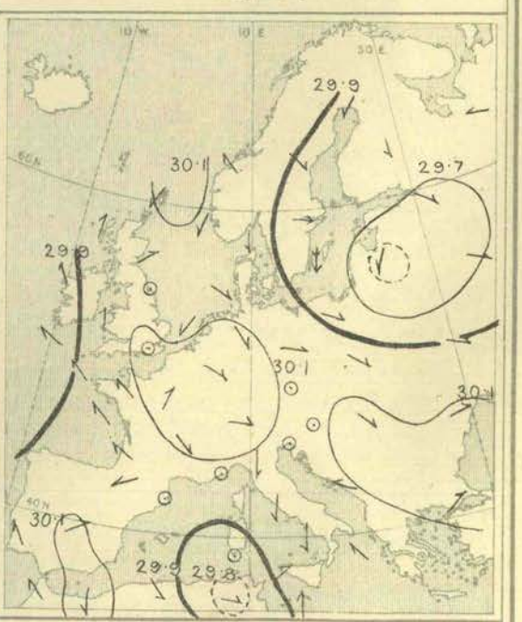


Barometer and Wind.

8 a.m.



6 p.m.



Weather cloudy or dull over the greater part of our Islands and the Continent, with fog at many of the English and French stations, rain in the west of Scotland, and snow in some parts of Finland and Scandinavia, as well as at Moscow. Fine and bright in Denmark and north Germany. Rain falling later at most of the Irish and Scotch stations, and also at Lisbon; considerable quantities reported in Algeria and the south of Italy, the largest of all being, 1·9 in. at Algiers.

Temperature fallen quickly in Russia, risen in many parts of southern Europe, changed irregularly elsewhere. Morning readings highest, 62° at Malta, 57° at Cagliari, and 55° at Barcelona and Algiers, above 50° at most of the Mediterranean stations, as well as in the extreme south-west of our Islands. Lowest, 1° Fahr. at St. Petersburg, + 3° at Uleaborg, 6° at Haparanda, and 8° at Helsingfors, below 10° in most parts of northern Russia, and below the freezing point over the greater part of northern, central, and eastern Europe, as well as over central Spain. Rising during day to 50° or a little above on many parts of our west and south-west coasts, and reaching 60° or more in the southern parts of Spain and Italy. Frost occurring over England at night.

Wind light or moderate from the South-Eastward over the greater part of our Islands and France, as well as in the western parts of the Iberian Peninsula, variable over the Netherlands, the south-east of England, and the central parts of France. Light or moderate from the Northward or North-Westward over Scandinavia, Denmark, Russia, and north Germany; Westerly in Austria, Easterly or South-Easterly in Italy, South-Easterly in Tunis, North-Westerly in Algeria. No important change occurring over western Europe during day, but Northerly gale setting in at Wisby.

Barometer highest, 30·2 ins. and upwards over central Spain, 30·1 ins. and upwards over France, western Germany, and the central and south-eastern parts of England. Lowest, 29·4 ins. and less in a shallow depression lying over central Russia; 29·8 ins. and less in a well-marked disturbance over Tunis; 29·9 ins. and less in a system lying to the west of our Islands. Well-marked depression appearing later over the Baltic Provinces; no important change occurring elsewhere.

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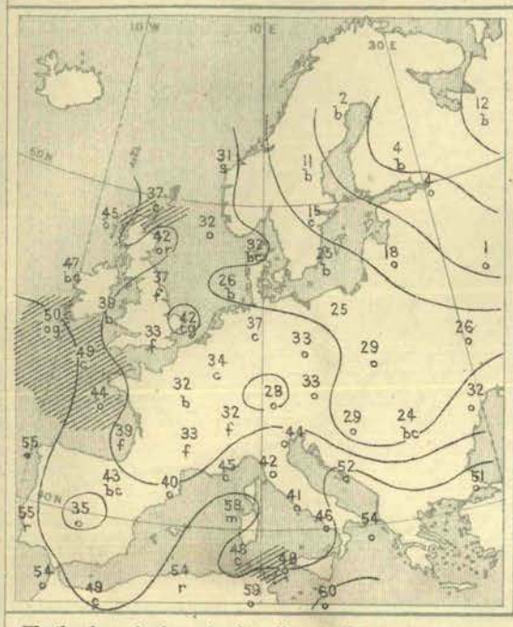
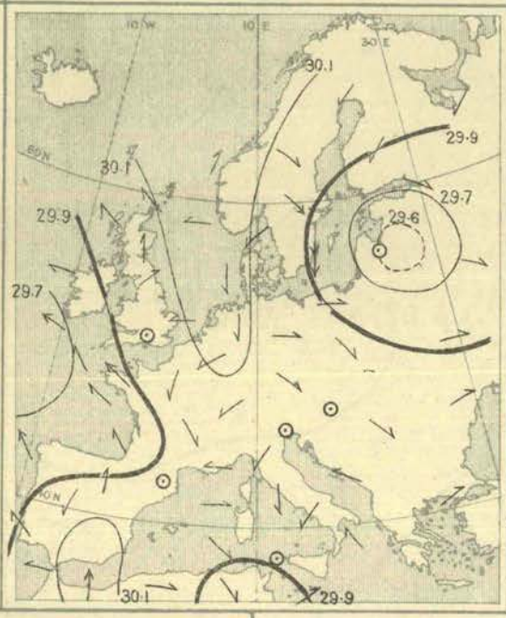
Thursday, 22nd December.

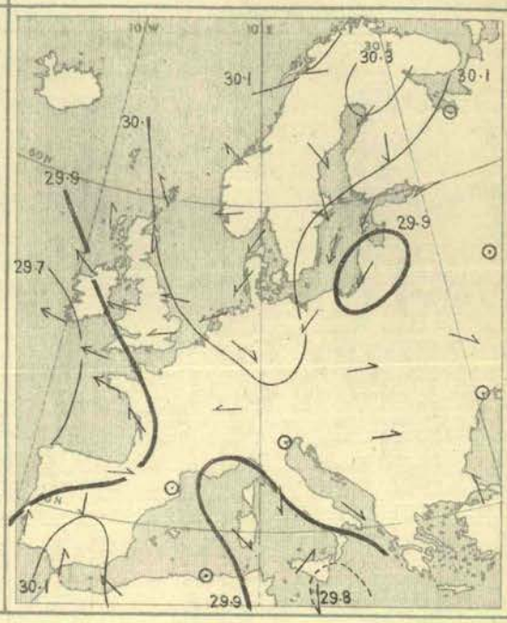
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather foggy in the east and south-east of England, as well as at some of the French stations. Dull on our south-west coasts and also over the greater part of the Continent, with rain at Lisbon and Algiers. Fine in the north-west of our Islands, and also over Sweden, Denmark, and northern Russia. A little rain falling later in the south-west and extreme north of our Islands, as well as in the west of France, and considerable quantities at Brest and Lisbon. Weather clearing in the south-east of England.

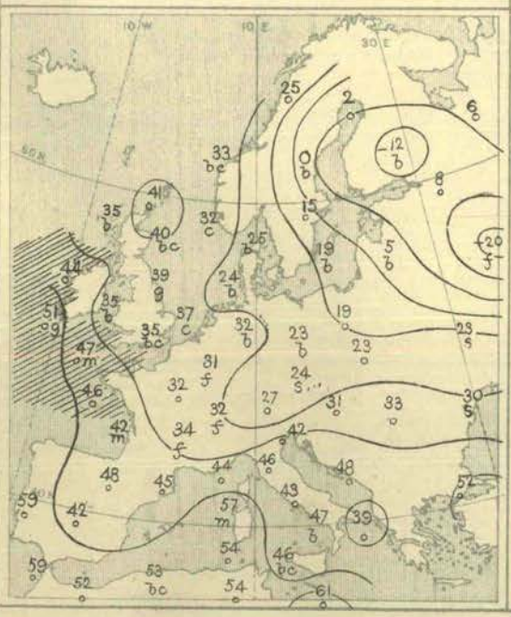
Temperature fallen in most parts of western and northern Europe, but risen in the south. Morning readings highest, 60° at Malta, 59° at La Calle, and 55° at Corunna and Lisbon, above 45° in Ireland, and the south-east of England generally, and reaching 50° at Valencia Island. Lowest, – 13° Fahr. at Archangel, – 4° at Kuopio, + 1° at Moscow, and 2° at Haparanda, below the freezing point in nearly all parts of northern, central, and eastern Europe, as well as in some parts of central England. Daily maxima below 40° at some of the inland English stations, but exceeding 60° in the southern parts of Spain and Italy.

Wind strong from the South-East on our south-west coasts, light or moderate from the same quarter in the north-west and north of our Islands, and also in the western parts of France and Spain. Light from the Eastward over the Netherlands and the south-east of England, Northerly or North-Westerly over Scandinavia, Denmark, and eastern Germany, Westerly in the central and southern parts of Russia. Variable in Austria and also in Algeria, Northerly or North-Easterly in Italy. Increasing at night to a gale from the South-Eastward over Ireland; no important change occurring elsewhere.

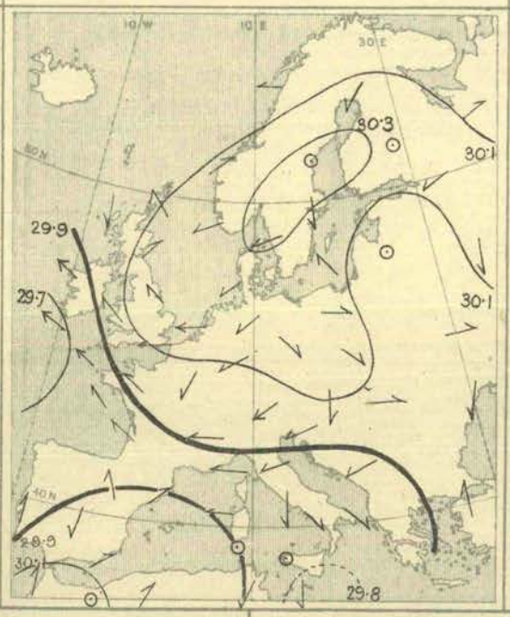
Barometer highest, 30·1 ins. and upwards over Norway and the greater part of the North Sea, also in Algeria and the south-east of Spain. Lowest, 29·6 ins. and less in a well-defined depression lying over the Baltic Provinces; 29·7 ins. and less in another disturbance lying to the south-westward of our Islands. Anticyclone over North Sea subsequently increasing in size, barometer rising decidedly over Scandinavia. Depression over Baltic Provinces gradually filling up.

Friday, 23rd December.

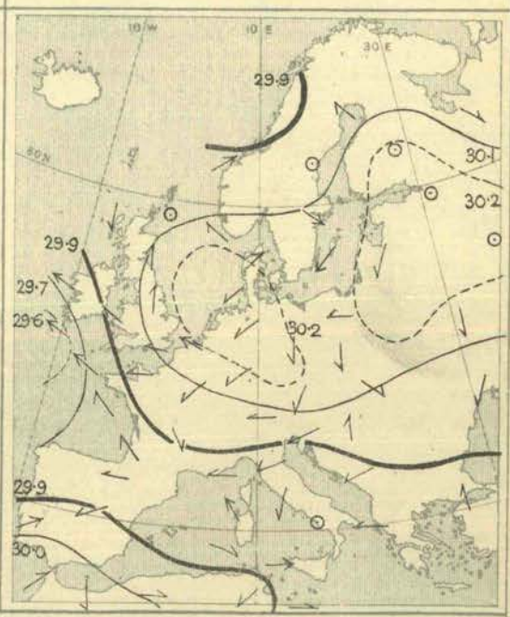
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather fine in all the more northern and eastern parts of our Islands, as well as in Scandinavia, Denmark, Finland, and north Germany. Dull elsewhere, with passing showers at some of our own south-western stations, snow at Kiev. Heavy rain falling later in the southern parts of Ireland and Wales, and snow at several of the Scandinavian stations, no important change occurring elsewhere.

Temperature fallen in nearly all parts of our Islands and the Continent. Morning readings highest, 61° at Malta, 59° at Lisbon and San Fernando, and 57° at Sanguinaire; above 50° in the extreme south-west of our Islands, and reaching 51° at Valencia Island. Lowest, – 38° Fahr. at Moscow, – 12° at Kuopio, – 8° at St. Petersburg, and – 7° at Helsingfors, below zero in most parts of northern and central Russia, below the freezing point over northern, eastern, and central Europe generally, as well as in some parts of central England. Daily maxima below 40° at several of our own northern and eastern stations, but thermometer reaching 50° on our south-west coasts, as well as in the west of France.

Wind strong from the Eastward or South-Eastward in the west and south of our Islands, and moderate from the same quarter in the west of France; light from the Southward in the south and east of Scotland. Moderate from East or North-East over Denmark, Germany, and the Baltic; Northerly or North-Westerly in Austria and Italy, and in the west and south of Russia. Strong South-Westerly winds setting in later on the west coast of Norway; no important change elsewhere.

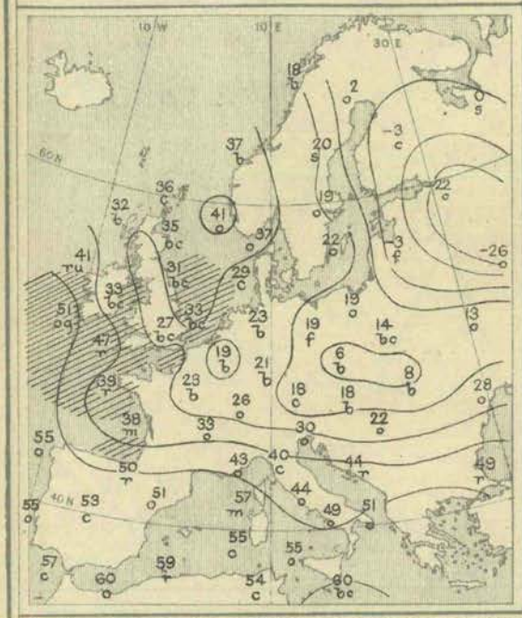
Barometer highest, 30·3 ins. and upwards over central Sweden, 30·1 ins. and upwards in a large anticyclone covering the greater part of northern Europe, with the North Sea, and the eastern parts of Great Britain, as well as in a separate area lying over Algeria. Lowest, 29·7 ins. and less in a depression lying off the south-west of Ireland. New disturbance, with readings below 29·9 ins., appearing later off the west of Norway, and barometer falling decidedly in Scandinavia.

Judd & Co. Lth. Lith. 63, Carter Lane, Doctors' Commons.

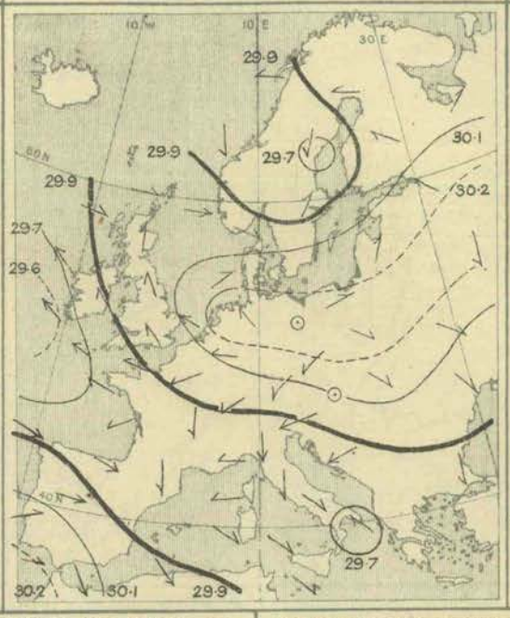
III.—SUMMARY OF WEATHER OVER EUROPE.

Saturday, 24th December.

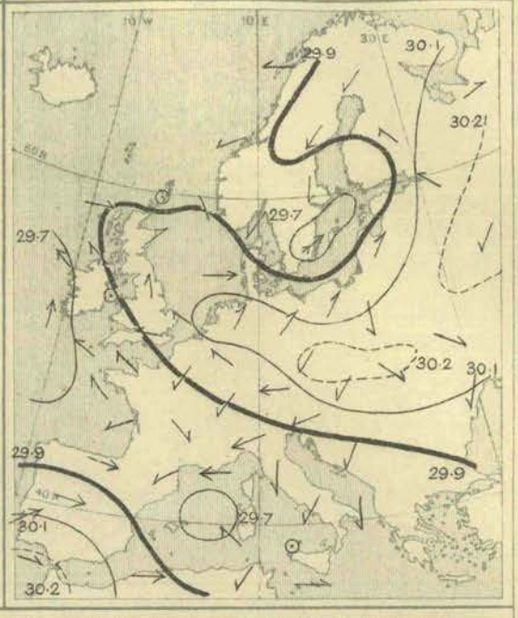
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fine and bright over Germany, the north of France, the North Sea and nearly the whole of Great Britain, cloudy or overcast elsewhere, rainy over the Adriatic, as well as in the western parts of France and our Islands. Continuing fine over Germany and Great Britain all day, but unsettled over northern Europe and on the Atlantic coasts, the British Isles and Europe.

Temperature in morning highest, 60° at Malta, 57° at San Fernando, and exceeding 50° over the whole of the Iberian Peninsula; 51° at Valencia (Ireland) and 47° at Scilly. Below the freezing point over the inland parts both of the Continent and the United Kingdom; (1) – 26° at Moscow, 22° at St. Petersburg. – 3° Fahr. at Kuopio, 0° (zero) at Archangel, and below 20° Fahr. over central Europe; (2) 24° at Nairn, 26° at Loughborough and Cambridge, and 27° in London. Rising later to 59° at Lisbon and to 54° at Biarritz, but falling over north-west Europe generally and touching 15° at Loughborough, 16° at Brussels, 19° at Paris, C. Gris Nez and Cambridge.

Wind (1) Easterly to North-Easterly over the Mediterranean and Adriatic, North-Westerly over Algeria; (2) Westerly over the Iberian Peninsula, Easterly in the west of France, South-Easterly over the United Kingdom; (3) Westerly on the eastern shores of the North Sea, South-westerly to Southerly over the Baltic, Easterly over north Europe. Little change later.

Barometer highest, 30·2 in. and more to 30·0 in. in a high pressure area of irregular form, covering the North Sea, central Europe, and the greater part of Russia, as well as over the south-west of Spain. Lowest, 29·7 in. and less in a depression having its centre near Hernösand, 29·6 in. and less in another lying to the westward of Valencia, and in a third off Brindisi, and below 29·8 in a band stretching from our south-western coast to the Mediterranean and Italy. Hardly any change later.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

BRIGHT SUNSHINE Values for the Week in addition to those found on page 302.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	6·8	?	14	?	EASTBOURNE	7·0	?	13	?
OSWALDKIRK (Yorkshire)	6·4	?	13	?	TENBY	2·2*	?	4*	?
WORKSOP	8·0	+ 1·6	18	+ 4	NEWQUAY	5·0	?	9	?
THURCASTON (Leicestershire)	9·1	+ 4·0	18	+ 8	TORQUAY	0·0*	?	0*	?
MARGATE	9·8	?	18	?	ARLEY COTTAGE (County Cavan)	3·1	?	6	?
WESTBOURNE (Sussex)	3.0*	?	6*	?	GUERNSEY	1·4*	?	3*	?
BRIGHTON									

The values at Westbourne, Tenby, Torquay and Guernsey are obtained by Jordan's Photographic Recorder.

Judd & Co Ltd. Lith. 63, Carter Lane, Doctors' Commons.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.
By whom Subscriptions, payable in advance, can be received.
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VOL. IX. No. 52.] *Third Series.* WEEK ENDING SATURDAY, 31ST DECEMBER, 1892. [*Price 6d.* [*Annual subscription, post paid, £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 20 years' observations (1871-90). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the ten years 1881-90. RAINFALL.—*The Mean amounts* are those for the corresponding periods in the twenty-five years 1866-90, but the *Mean numbers of Rainy Days* are those for the ten years 1881-90, only. BRIGHT SUNSHINE.—*The Mean values* employed are those for the corresponding periods in the ten years 1881-90.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 308.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1892. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	45	15	37·9	27·2	32·8	5 below.	0	− 6	64	+32	1718	−159	1091*	+308
	1. SCOTLAND, EAST	42	11	35·1	21·7	28·7	8 below.	0	− 6	93	+54	1985	−377	1249	+389
	2. ENGLAND, N.E.	40	13	34·9	21·9	28·7	9 below.	0	− 7	93	+58	2291*	−241	1004*	+284
	3. ENGLAND, EAST	38	14	33·7	21·1	27·7	10 below.	0	− 7	100	+59	2714	−217	1084	+256
	4. MIDLAND COUNTIES	39	9	31·8	17·9	25·1	12 below.	0	− 8	118	+77	2676	−197	1190	+355
	5. ENGLAND, SOUTH	42	13	35·3	24·2	30·0	9 below.	0	−12	84	+53	3053	−169	759	+148
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	45	12	36·7	26·6	31·9	7 below.	0	− 9	71	+43	2203	−259	896*	+292
	7. ENGLAND, N.W.	42	13	35·3	23·8	29·7	10 below.	0	− 9	86	+57	2484*	−188	812	+222
	8. ENGLAND, S.W.	46	12	39·2	28·6	34·2	8 below.	0	−15	55	+33	2886	−183	568	+125
	9. IRELAND, NORTH	47	13	39·2	30·0	34·8	5 below.	0	−12	50	+25	2442	−194	672	+135
	10. IRELAND, SOUTH	50	18	43·2	33·6	38·6	3 below.	3	−16	32	+11	2911	−116	548	+128
	— CHANNEL ISLANDS	50	25	43·2	33·9	38·7	6 below.	3	−22	30	+22	3546	+ 18	203	+ 52

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 308.)	Rainfall. For the Week. Number of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1892. Number of Rainy Days.	Difference from Mean.	Total Fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1892. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of In.	10ths of In.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	1	1	12 less.	253	+ 8	50·1	0·0	3	− 3	6	− 8	1110	− 43	25	− 1
	1. SCOTLAND, EAST	1	less than ½	6 less.	201	+ 1	28·1	− 4·1	10	+ 3	22	+ 4	1334	− 11	30	− 1
	2. ENGLAND, N.E.	1	1	5 less.	197	+10	25·5	− 1·5	11	− 1	21	0	1300	+ 60	29	+ 1
	3. ENGLAND, EAST	1	less than ½	5 less.	180	− 5	27·1	+ 0·7	10	0	19	− 2	1531	+ 22	35	+ 1
	4. MIDLAND COUNTIES	0	—	6 less.	176	− 4	23·6	− 5·4	14	+ 6	26	+11	1469	+122	33	+ 2
	5. ENGLAND, SOUTH	0	—	6 less.	160	−17	24·6	− 3·7	18	+ 6	33	+11	1684	+222	38	+ 5
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	1	less than ½	13 less.	206	− 5	46·7	− 4·7	2	− 5	3	−10	1420	+ 98	32	+ 2
	7. ENGLAND, N.W.	0	—	8 less.	205	+ 8	36·9	+ 1·3	17	+10	34	+21	1432*	+125	32	+ 2
	8. ENGLAND, S.W.	0	—	10 less.	192	−13	31·2	−10·8	18	+ 7	33	+16	1712	+126	39	+ 3
	9. IRELAND, NORTH	1	1	7 less.	232	+ 3	38·4	+ 0·9	10	+ 3	19	+ 7	1306	+ 74	30	9
	10. IRELAND, SOUTH	2	2	7 less.	203	− 7	39·9	+ 0·1	16	+ 5	30	+10	1449	+ 11	33	0
	— CHANNEL ISLANDS	1	1	8 less.	195	−24	29·7	− 4·8	35	+25	61	+ 6	1988	+126	45	+ 2

Bright Sunshine.—For several of the stations there are no "mean" values available, and the "difference from the mean" in some of the districts is consequently that of only a few of the stations.

General Remarks.

Weather during this period was very cold over Great Britain, with a good deal of fog at the inland stations, but with fine clear weather on the coast. In Ireland the conditions were generally rather milder and some slight rain was experienced.

Temperature was much below the mean, the deficit ranging from 4° or 5° in Ireland to as much as 9° or 10° over the greater part of England, and to 12° in the Midland Counties. The highest of the maxima were registered on somewhat irregular dates, and ranged from 50° in Ireland S. and the Channel Islands, to 39° in the Midland Counties, and 38° in England E. The daily maxima at the inland stations were very low during the greater part of the week. The lowest of the minima were recorded during the middle part of the period, when the thermometer fell to 9° in the Midland Counties (at Loughborough), to 11° in Scotland E., and to between 12° and 14° in most other districts; in the Channel Islands the lowest reading was 25°.

Rainfall was almost entirely absent from Great Britain, and very much less than the mean in Ireland.

Bright Sunshine was fairly abundant over the country as a whole, but deficient in Scotland N. and W., and in the neighbourhood of London. The percentage of the possible duration ranged from 61 in the Channel Islands, to 34 in England N.W., and 33 in England S. and S.W., to only 6 in Scotland N. and 3 in Scotland W. In London (owing to fog) the percentage was as low as 2.

Barometer and Wind.—The distribution of pressure over our Islands was generally anticyclonic, no depressions passing directly over us, although some systems moved both in a South-Easterly direction over the Bay of Biscay and France, and in a Northerly and North-Easterly direction outside our extreme western and north-western coasts. The winds were at first, fresh or strong from the Eastward in the south, from the South-Eastward or Southward in the west, and Westerly in the extreme north, but, by the 29th, the Southerly current had extended to almost all parts of the Kingdom. Towards the end of the week, however, the wind shifted to the Eastward very generally, and blew freshly or strongly in the south.

* This value has been altered slightly owing to the receipt of further information.

637 1|90 J. & Co. Ltd.
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II.—DATA from which the SUMMARY on page 307 has been calculated.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°				Inches	Inches.				
0. SCOTLAND, N.	Sumburgh Head ⚓	45	32	42·9	35·0	39·1	0·0	3	26	5	0·25	−0·66	*	*	*	*
	Stornoway	45	25	41·1	32·7	37·1	− 1·8	0	34	1	0·02	−1·23	2·7	− 3·3	6	− 8
	Wick	40	20	38·7	30·0	34·5	− 3·3	0	53	1	0·06	−0·54	*	*	*	*
	Lairg ⚓	42	15	34·2	20·0	27·4	− 8·5	0	102	0	—	−0·84	*	*	*	*
	Glencarron ⚓	43	20	37·1	23·7	30·7	− 6·7	0	79	0	—	−2·20	*	*	*	*
	Fort Augustus ⚓	42	15	36·0	22·9	29·7	− 8·5	0	86	1	0·04	−1·01	0·0	?	0	?
	Fort William ⚓	43	18	35·1	26·2	30·8	− 8·6	0	78	0	--	−2·15	6·1	?	13	?
1. SCOTLAND, E.	Nairn	42	12	36·9	18·4	28·0	− 9·6	0	98	0	—	−0·44	*	*	*	*
	Aberdeen	39	20	35·6	26·1	31·0	− 6·5	0	77	1	0·07	−0·59	11·5	+ 1·5	25	+ 4
	Braemar ⚓	37	11	31·6	18·2	25·2	− 9·2	0	118	1	0·02	−0·65	13·0†	?†	28†	?†
	Ochtertyre ⚓	39	15	34·7	22·7	28·9	− 7·3	0	92	0	—	−1·03	*	*	*	*
	Leith	42	15	36·4	22·0	29·5	− 9·4	0	88	1	0·01	−0·41	*	*	*	*
	Marchmont ⚓	41	18	35·3	22·9	29·4	− 7·0	0	88	1	0·04	−0·64	12·8	?	27	?
2. ENGLAND, N.E.	Alnwick Castle	38	18	33·1	21·9	27·7	−10·0	0	100	1	0·07	−0·55	*	*	*	*
	Durham	35	14	31·5	17·8	24·9	−11·9	0	120	1	0·05	−0·55	12·4	+ 2·6	25	+ 7
	Shields	40	19	35·1	22·7	29·2	− 9.1	0	90	1	0·14	−0·36	*	*	*	*
	Scarborough ⚓	38	20	34·3	24·9	29·8	− 8·8	0	85	1	0·01	−0·55	*	*	*	*
	York	36	13	39·4	16·9	28·6	− 8·8	0	94	0	—	−0·49	2·0	− 3·8	4	7
	Spurn Head	40	25	36·0	27·4	31·9	− 6·6	0	71	2	0·02	−0·38	*	*	*	*
3. ENGLAND, E.	Hillington ⚓	35	15	33·0	20·1	26·8	−10·2	0	106	1	0·03	−0·48	7·8	− 1·2	15	− 2
	Yarmouth	38	24	35·1	27·6	31·5	− 6·1	0	74	1	0·03	−0·51	*	*	*	*
	Geldeston	38	21	35·5	23·5	29·7	− 8·3	0	86	2	0·06	−0·37	11·0	− 0·1	21	0
	Cambridge	35	16	32·4	17·3	25·2	−12·0	0	118	0	—	−0·38	6·7	− 3·0	13	− 5
	Rothamsted	36	14	32·3	17·2	25·1	−12·3	0	118	0	0·02‡	−0·56	13·4	?	25	?
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	33	10	28·6	17·6	23·3	−14·0	0	131	0	—	−0·48	*	*	*	*
	Loughborough	36	9	31·9	13·9	23·3	−14·3	0	131	0	--	−0·49	*	*	*	*
	Stamford (Ketton Hall)	35	13	33·0	17·6	25·6	−11·6	0	115	1	0·01	−0·49	*	*	*	*
	Cheadle ⚓	39	21	33·9	23·4	28·9	− 7·6	0	92	0	—	−0·68	*	*	*	*
	Churchstoke ⚓	36	11	32·3	17·7	25·3	−12.7	0	117	0	—	−0·68	19·2	+10·2	36	+19
	Hereford ⚓	33	12	30·1	15·7	23·2	−15·0	0	132	0	—	−0·53	*	*	*	*
	Cirencester	35	11	32·7	19·1	26·2	−11·2	0	111	0	—	−0·67	16·1	+ 6·9	30	+13
	Oxford	37	14	31·7	18·1	25·2	−13·1	0	118	2	0·03	−0·46	10·7	+ 2·9	20	+ 4
5. ENGLAND, S.	London	37	17	34·0	21·4	28·0	−11·0	0	98	0	—	−0·49	1·2†	− 3·8†	2†	− 6†
	North Foreland	40	25	37·6	29·6	33·8	− 5·7	0	57	1	0·08	?	*	*	*	*
	Strathfield Turgiss ⚓	?36	13	27·9	17·0	22·7	−15·1	0	135	1	0·01	−0·49	*	*	*	*
	Dungeness	42	20	38·1	26·4	32·5	− 7·5	0	67	0	—	−0·64	*	*	*	*
	Hastings (St. Leonards)	39	25	37·6	27·5	32·8	− 7·2	0	64	0	—	−0·65	23·5	+10·7	44	+21
	Southampton	38	20	35·3	24·1	29·9	−10·1	0	85	0	—	−0·72	19·9	+ 9·6	37	+18
	Hurst Castle	42	24	37·7	27·9	33·0	− 7·7	0	63	0	—	−0·64	*	*	*	*
	Stowell ⚓	36	16	34·2	19·9	27·3	−11·1	0	103	0	—	?	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	45	24	39·5	30·0	34·9	− 5·1	0	50	0	—	−2·06	*	*	*	*
	Glasgow	40	18	34·6	25·6	30·3	− 7·9	0	82	0	—	−0·92	0·0	+ 4·0	0	− 8
	Ardrossan	44	22	37·9	27·4	32·9	− 7·4	0	64	1	0·01	−0·89	*	*	*	*
	Glenlee ⚓	40	12	32·6	18·5	25·8	−11·4	0	113	1	0·07	−1·43	*	*	*	*
	Douglas (Isle of Man)	43	22	38·8	31·7	35·4	− 5·4	0	46	1	0·01	−1·01	3·2	− 6·1	6	−12
7. ENGLAND, N.W.	Newton Reigny	35	13	33·3	17·2	25·6	−10·8	0	115	1	0·01	−0·79	17·6	+10·6	36	+23
	Stonyhurst	35	17	31·7	20·5	26·3	−11·4	0	110	0	—	−0·98	7·2	+ 0·6	14	+ 2
	Blackpool ⚓															
	Manchester	36	19	32·7	22·4	27·8	− 9·9	0	99	0	—	−0·78	*	*	*	*
	Liverpool Obsy. (Bidston)	36	22	33·9	23·7	29·0	−10·5	0	91	0	—	−0·55	*	*	*	*
	Llandudno ⚓	42	25	39·2	27·4	33·5	− 8·0	0	60	0	—	−0·67	?27·4	+ 21·0	? 53	+41
	Holyhead	42	28	40·7	31·4	36·2	− 6·4	0	41	1	0·01	−0·81	*	*	*	*
8. ENGLAND, S.W.	Llandovery	38	12	34·3	19·0	27·0	−13·6	0	105	0	—	−1·22	*	*	*	*
	Pembroke	45	29	40·0	33·9	36·6	− 6·6	0	38	0	—	−0·88	17·2	+ 6·6	32	+22
	Arlington (N. Devon)	46	21	39·3	26·3	33·1	− 7·0	0	62	0	—	−1·18	*	*	*	*
	Cullompton ⚓	39	18	36·8	23·2	30·3	− 9·3	0	82	1	0·01	−0·77	20·9	+12·9	39	+25
	Falmouth	45	30	42·6	35·4	39·1	− 5·0	2	24	1	0·01	−1·19	17·2	+ 5·5	31	+11
	Plymouth	42	23	40·6	30·1	35·6	− 6·3	0	45	0	—	−0·90	?	?	?	?
	Prawle Point	43	29	41·1	33·6	37·5	− 4·7	0	32	0	—	−0·78	*	*	*	*
9. IRELAND, N.	Malin Head	43	31	39·3	34·3	36·9	− 3·0	0	36	0	—	?	*	*	*	*
	Londonderry	43	23	39·2	30·0	34·8	− 4·9	0	50	0	—	−0·90	*	*	*	*
	Edenfel (Omagh)	40	20	35·6	26·3	31·1	− 7·0	0	76	2	0·06	−0·74	*	*	*	*
	Mullaghmore	?47	27	42·9	33·9	38·6	− 3·5	3	30	2	0·03	−0·97	*	*	*	*
	Belmullet	47	32	43·7	36·7	40·3	− 3·0	5	20	2	0·23	?	*	*	*	*
	Markree Castle	42	18	38·2	28·1	33·4	− 6·6	0	60	2	0·03	−0·77	5·9	− 3·1	12	− 4
	Brookeborough	43	17	38·7	25·9	32·8	− 5·1	0	66	2	0·24	−0·70	*	*	*	*
	Armagh	43	13	37·1	26·9	32·2	− 6·1	0	69	1	0·01	−0·62	17·5	+ 8·7	34	+18
	Donaghadee	42	25	39·6	31·3	35·6	− 5·3	0	45	0	—	−0·63	*	*	*	*
	Edgeworthstown	42	20	37·2	26·9	32·3	− 5·9	0	68	1	0·03	−0·67	*	*	*	*
10. IRELAND, S.	Dublin	43	22	37.1	28·2	32·8	− 8·3	0	64	0	—	−0·52	19·6	+ 8·4	38	+17
	Parsonstown	44	20	40·4	29·6	35·2	− 4·0	0	48	0	—	−0·70	17·7	+ 7·3	34	+15
	Kilkenny	44	18	40·1	27·1	33·9	− 6·3	0	57	3	0·12	−0·63	*	*	*	*
	Waterford	46	24	42·6	32·7	37·9	− 4·3	2	35	2	0·25	−0·73	*	*	*	*
	Roche's Point	49	33	46·9	40·4	43·8	+ 0·3	19	4	3	0·85	−0·52	*	*	*	*
	Valencia	50	36	47·9	40·7	44·4	− 0·5	22	4	2	0·22	−1·18	9·2	− 1·1	17	− 3
	Killarney	49	31	47·3	37·8	42·7	+ 0·5	23	12	3	0·33	?	*	*	*	*
	Foynes	48	25	42·9	32·6	38·0	− 3·6	3	35	3	0·06	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	50	37	47·9	38·7	43·5	− 2·9	24	9	2	0·12	−0·76	*	*	*	*
	Jersey	41	25	38·4	29·1	33·9	− 9·0	0	57	0	—	−0·80	39·5	+24·6	69	+45

Stations marked ⚓ are in connection with the Royal Meteorological Society, and those marked ⚓ with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

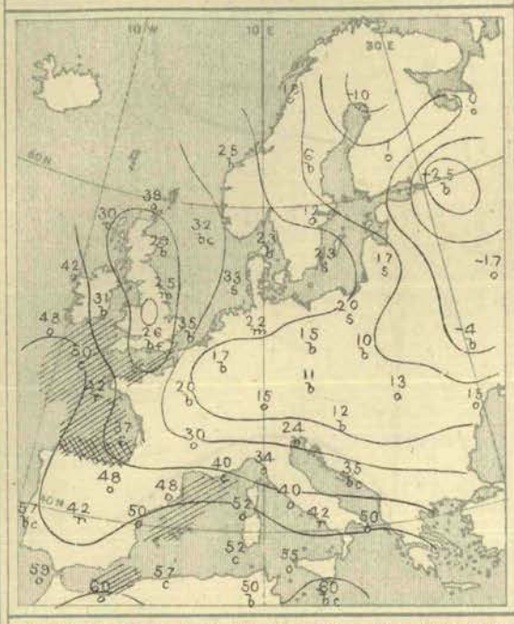
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory and the Meteorological Office, Victoria Street. For additional Reports of Sunshine see last page.

‡ Wet fog and mist.

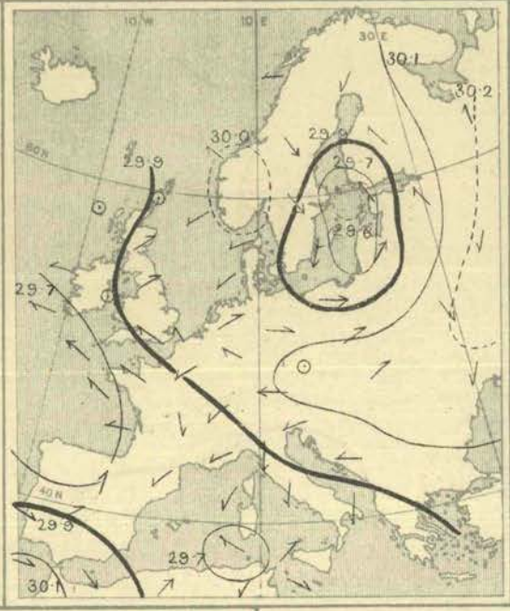
III.—SUMMARY OF WEATHER OVER EUROPE.

Sunday, 25th December.

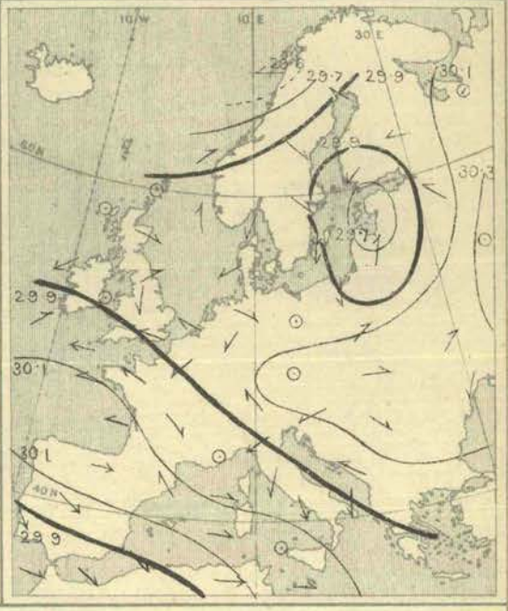
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over central and western Europe, including nearly the whole of Great Britain, dull and rainy over many parts of Ireland, rainy at Madrid, dull, with snow, over the Baltic and some portions of Russia. Considerable rain in the south-east of Ireland later, and smaller quantities of rain or snow at some other western and northern stations; larger quantities over Algeria, the south of Spain, and the south-west of France.

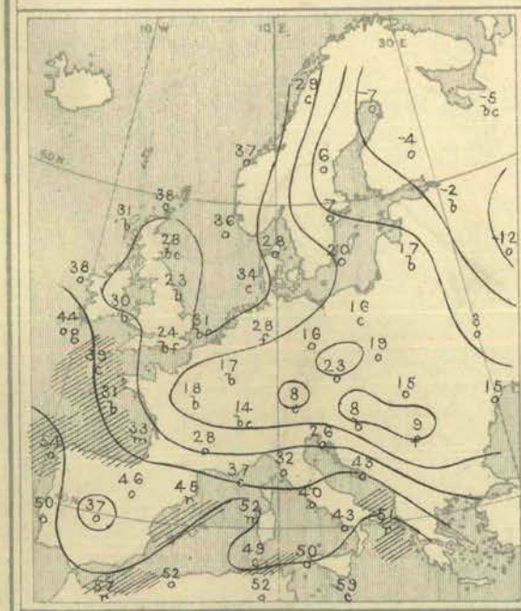
Temperature in morning highest, 50° to 60° on the southern side of the Mediterranean, and on the Spanish coasts, 50° at Scilly, 48° at Valencia and Biarritz. Much lower elsewhere—considerably below the freezing point over Europe and Great Britain, as a whole, and lowest of all, (1) − 2° Fahr. to − 25° over Russia, − 10° at Haparanda, + 1° at Kuopio; 10° to 18° over Germany, 17° to 24° over England. Not touching 40° over Great Britain later, but slightly exceeding that value in the west of Ireland and at Nice, and rising to 52° at Perpignan, 57° at Biarritz, 63° at Malta, and to 65° and more at some Algerian stations.

Wind (1) Westerly to Southerly over Spain, South-Easterly in the west of France, and South-Easterly to Easterly over England, and moderate as a whole; (2) nearly calm over south-eastern and central Europe and the North Sea; (3) North-Westerly over Sweden, Westerly over north Germany, Southerly over the Baltic Provinces, and South-Easterly to North-Easterly over Finland. Shifting Northwards over the Baltic Provinces later, and becoming stronger from West over Spain.

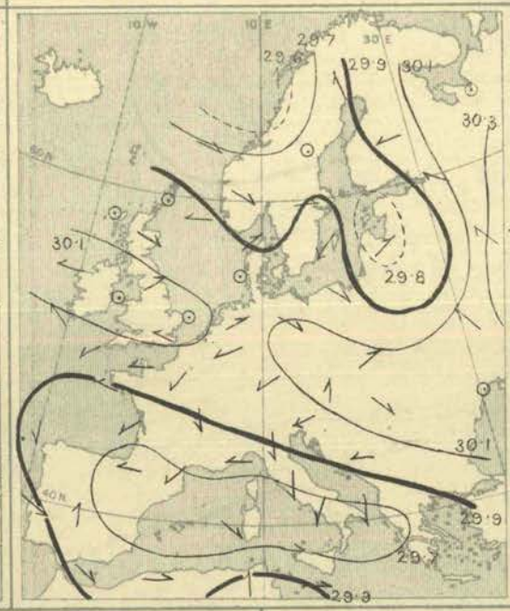
Barometer highest, 30·3 ins. and more over north-eastern and central Russia, exceeding 30·0 ins. over south-eastern and central Europe, and exceeding 29·9 ins. over the North Sea and greater part of England. Lowest, 29·6 ins. and less in a depression over the Baltic, and in another lying to the westward of Scilly. Former system moving very slowly to the eastward later, latter travelling fast to the south-eastward, and reaching south-west of France by evening.

Monday, 26th December.

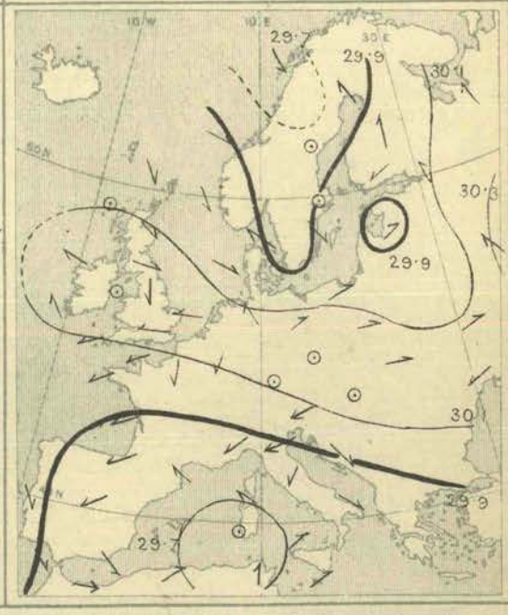
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the greater part of the United Kingdom, central and south-eastern Europe, as well as over the north of Russia, but foggy locally in many places; dull over the Mediterranean and the Iberian Peninsula, as well as over the Baltic and Scandinavia. Some snow later over the northern parts of Scandinavia and Russia, and about 0·4 in. of rain at Perpignan. Continuing foggy over England.

Temperature in morning exceeding 50° at the coast stations of the south of Italy, Algeria, and Spain only; exceeding 40° at Biarritz and Valencia (Ireland); very low over the Continent and inland parts of our islands. Lowest, − 2° to − 13° Fahr. over Finland and Russia, + 7° at Stockholm; 3° at Kiev, 8° at Munich, Vienna, and Buda-Pesth, 16° at Berlin, 18° at Paris; 18° to 20° over the English midland counties. 25° at Parsonstown. Rising to 40° and more in the extreme north and west of our Islands later, to 48° at Nice, to 59° and upwards in many parts of southern Europe, and to 60° or more in the extreme south of Italy. Hard frost at night over all inland districts.

Wind light and anticyclonic over the British Islands, as well as over Hungary and the south of Russia; Westerly to Southerly over Scandinavia, Northerly over the Baltic; Easterly over France, Northerly over Italy, Westerly over Algeria. No important change later.

Barometer highest, 30·3 ins. and more to 30·2 ins. over Russia, and 30·1 ins. and more to 30·0 ins. in a broad band extending thence across Poland, Austria-Hungary, Germany, and the British Islands to the Atlantic. Lowest, 29·6 ins. and less over the north-west of Norway, 29·8 ins. and less over the Gulf of Riga, and below 29·7 ins. over the northern half of the Mediterranean. Rising slowly over western Europe later, falling a little over the Baltic.

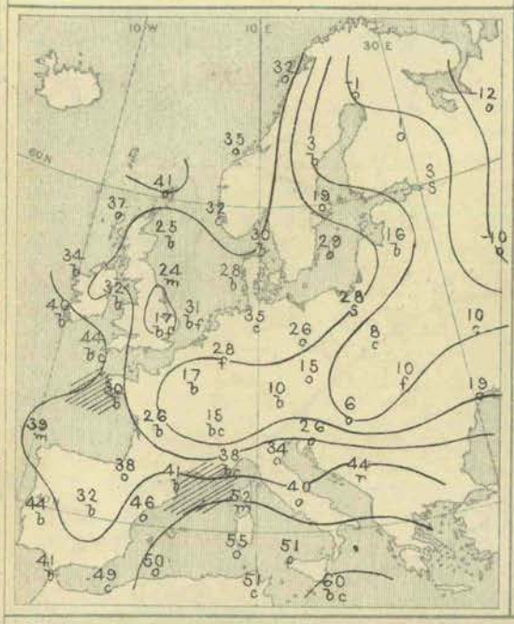
Judd & Co Ltd, Lith. 63, Carter Lane, Doctors' Commons.

III.—SUMMARY OF WEATHER OVER EUROPE.

Tuesday, 27th December.

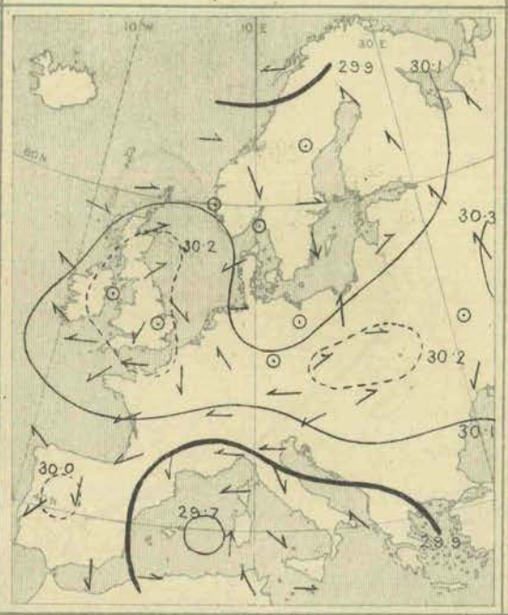
Temperature and Weather.

8 a.m.

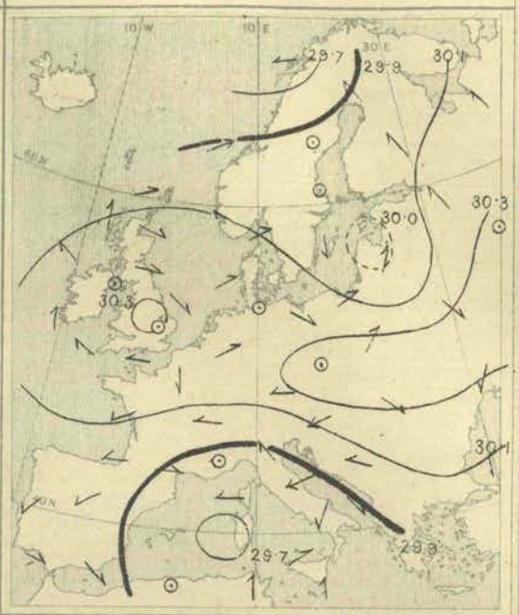


Barometer and Wind.

8 a.m.



6 p.m.



Weather fair or dry over the greater part of western and southern Europe, but foggy or misty at several of our own stations. Dull over Russia, Sweden, Germany, Austria, and northern Italy, with snow at Helsingfors, St. Petersburg, and Munich. No important change occurring during day, but a little rain falling at the North Foreland, and also at the Helder. Considerable amounts reported at some of the Italian and Algerian stations.

Temperature risen over Sweden, Russia, the Baltic, and the Netherlands, but fallen in most other localities. Morning readings highest, 60° at Malta, 55° at Cagliari, and 51° at Palermo and La Calle. Lowest, (1) − 12° Fahr. at Archangel, − 10° at Moscow, − 4° at Uleaborg, − 1° at Haparanda; (2) + 6° at Buda-Pesth and 8° at Vienna; (3) 10° at Loughborough, 14° at Oxford, and 17° at Cambridge and in London; hard frost prevailing in nearly all parts of the United Kingdom, as well as over northern, eastern, and central Europe generally. Daily maxima below the freezing point at many of the English and French stations, but thermometer exceeding 45° on our extreme south-west coasts, and exceeding 50° in many parts of southern Europe.

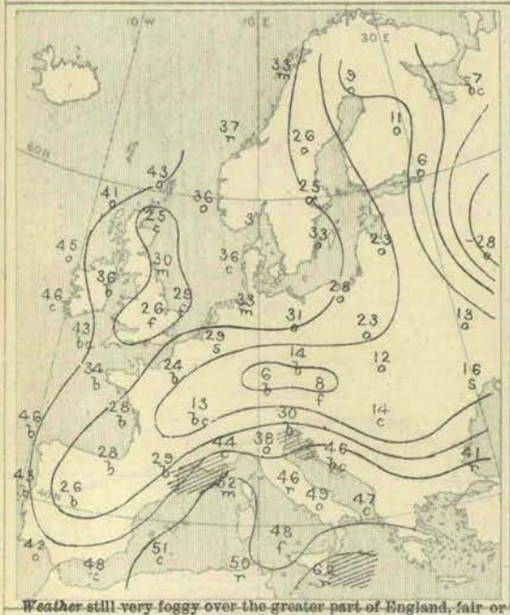
Wind light or moderate from North-East over the Channel and France, from South-East in Ireland, and from South-West or West in Scotland, but variable over the more central parts of the United Kingdom. South-Easterly on the southern shores of the Baltic, but calm or variable in nearly all other parts of northern, eastern, and central Europe; chiefly Northerly in Spain, Italy, and Algeria. No important change occurring during day.

Barometer highest, 30·3 ins. and upwards in an anticyclone lying over central Russia; 30·2 ins. and upwards in two other areas lying respectively over northern Austria and over all but the extreme western and northern parts of the United Kingdom. Lowest, 29·8 ins. and less in a large shallow area lying over the more central parts of the Mediterranean, 29·9 ins. and less in another shallow system over the north-west of Norway. Scarcely any change occurring during day.

Wednesday, 28th December.

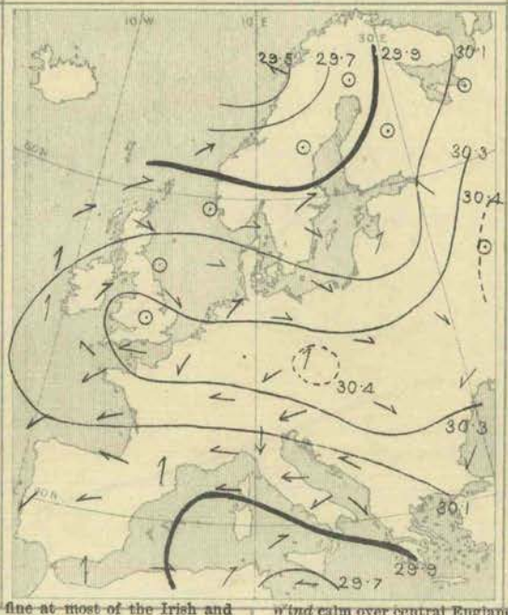
Temperature and Weather.

8 a.m.

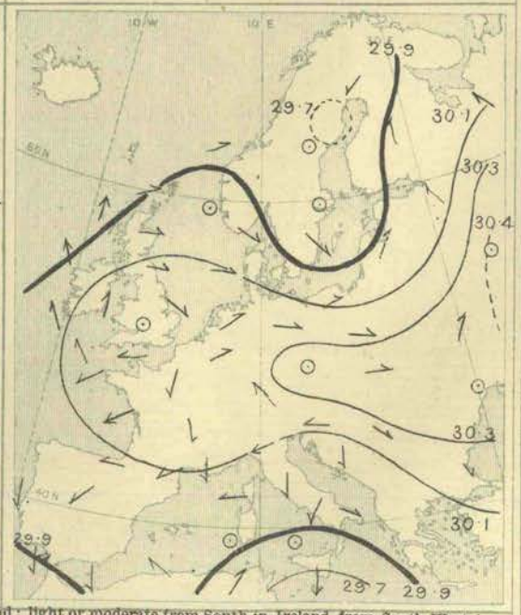


Barometer and Wind.

8 a.m.



6 p.m.



Weather still very foggy over the greater part of England, fair or fine at most of the Irish and Scotch stations, but dull in the extreme north and north-west. Fine and bright in France, Spain, and south Germany, but dull in all other parts of the Continent, with rain at Christiansund, Rome, and Constantinople, and snow at Odessa. Fair in Algeria, but rainy at La Calle and Tunis. Very little change occurring over western Europe during day, but snow falling at many of the Russian and Austrian stations.

Temperature fallen quickly over central Russia and slightly over Spain and south Germany, but risen in most other localities. Morning readings highest, 62° at Malta, 61° at Algiers, and 56° at La Calle and Tunis; reaching 45° or more in the extreme west and south of Ireland. Lowest, − 28° Fahr. at Moscow, − 7° at Archangel, + 4° at Kharkov, and 6° at St. Petersburg and Munich, below 20° in most parts of Russia, Austria, and south Germany, as well as in some parts of central England. Hard frost continuing all day at many of the English stations, but milder weather setting in gradually over Ireland and Scotland. Daily maxima below 40° in most parts of France, but thermometer exceeding 50° in the Riviera, as well as in many parts of Spain and Italy.

Wind calm over central England; light or moderate from South in Ireland, from South-West in Scotland, and from West over the North Sea, Denmark, north Germany, and Poland. Variable in Russia, Easterly or North-Easterly over France, Spain, and Italy; chiefly Southerly in Algeria. Subsequently increasing to a strong breeze or moderate gale from the Southward on our extreme western and north-western coasts.

Barometer highest, 30·4 ins. and upwards over central Russia; 30·3 ins. and upwards in a long band extending westwards from central and southern Russia, across Germany and the Netherlands, to England and Wales. Lowest, 29·5 ins. and less in a depression lying off the north-west of Norway, 29·7 ins. and less in a shallow system lying near Malta. Decided fall of barometer taking place over our Islands later, and large depression beginning to approach our extreme western coasts. Disturbance off north-west of Norway moving south-eastwards and partially filling up.

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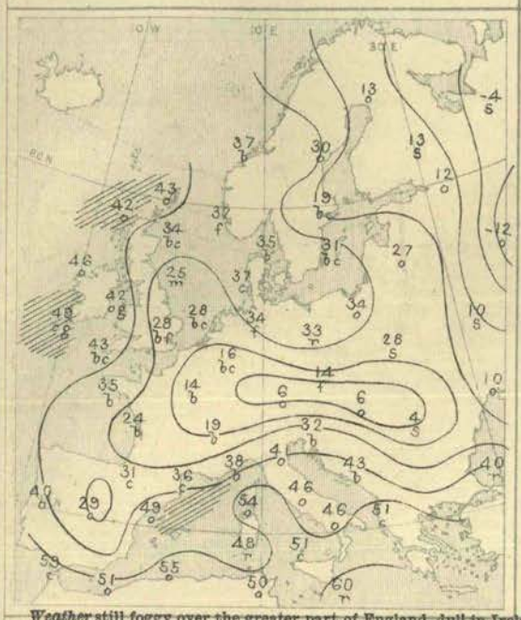
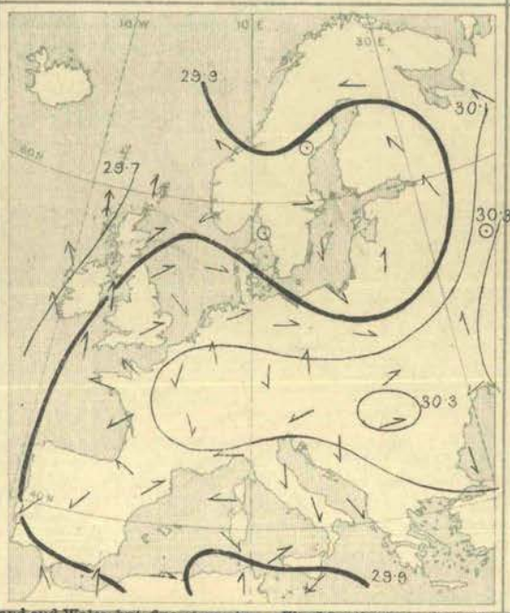
III.—SUMMARY OF WEATHER OVER EUROPE.

Thursday, 29th December.

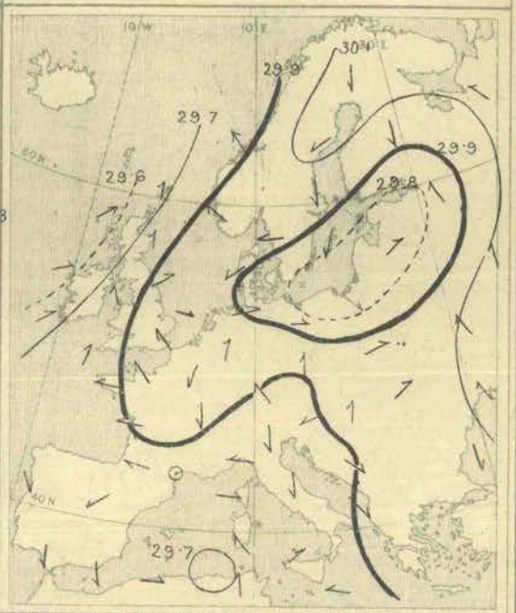
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather still foggy over the greater part of England, dull in Ireland and Wales, but fine at most of the Scotch stations. Fine also over the south of Sweden and the greater part of France, but dull in all other parts of the Continent, with rain and fog at some of the German stations, and with snow over northern Russia, as well as at Kiev, Vienna, and Hermanstadt. Fog clearing later in some parts of England; rain falling in the west of Ireland, and also in the Shetlands. Large quantities reported in the south of Italy.

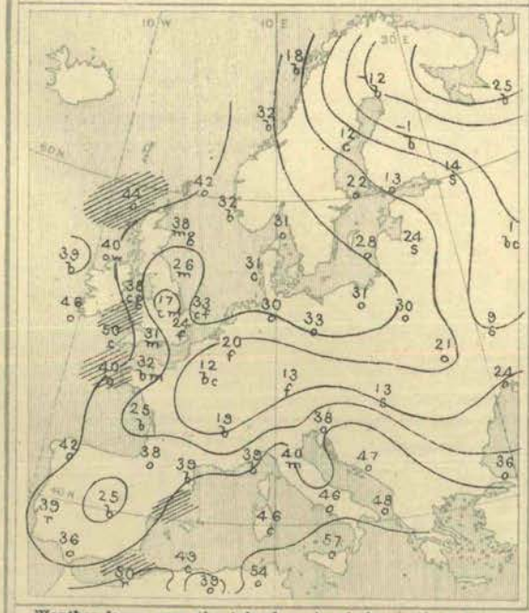
Temperature risen in the south-west, west, and north of our Islands, as well as over Poland and the northern parts of Sweden and Russia, fallen in most other localities. Morning readings highest, 60° at Malta, 55° at Algiers, and 51° at Brindisi, Palermo, and Oran; above 45° in the west and south of Ireland. Lowest, – 15° Fahr. at Kharkov, – 12° at Moscow, – 4° at Archangel, and + 4° at Hermanstadt; below 10° at most of the Austrian stations, and below 20° over the north of England and central France. Slight rise taking place over England during day, but severe frost setting in again at night. Daily maxima over France mostly below 40°, but thermometer reaching 50° at Nice, and exceeding that point at most of the Italian stations.

Wind Southerly in the west and north of our Islands, with a gale in the Hebrides and the north-west of Ireland, but light and variable in the central and south-eastern parts of England. Westerly over north Germany, but Easterly or North-Easterly in Norway, variable over Sweden, Southerly over Finland and the Baltic Provinces. Easterly in the west and south of France, North-Easterly in Spain, and Northerly or North-Westerly in Italy, but variable in Austria, and Southerly in Algeria. Light South-Easterly breeze setting in later over England; gale on our extreme north-west coasts subsiding quickly.

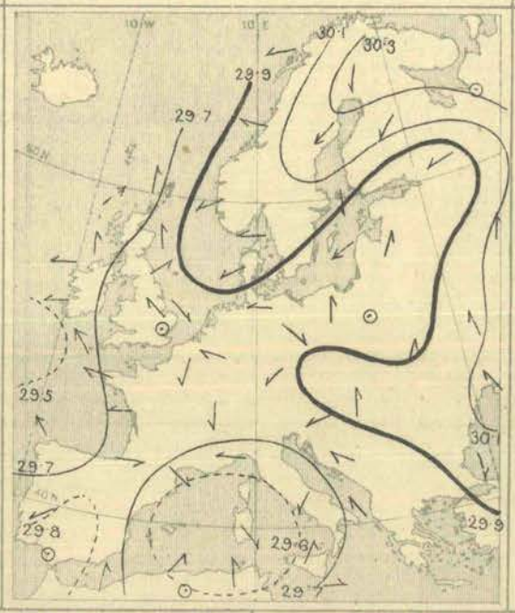
Barometer highest, 30·3 ins. and upwards over the central and southern parts of Russia; 30·0 ins. and upwards in a large anticyclonic area extending thence across central Europe to the south-eastern parts of England. Lowest, 29·6 ins. and less in a depression lying off our extreme north-west coasts, 29·8 ins. and less in two shallow systems lying over the Baltic and its immediate neighbourhood. Depression in north-west subsequently moving northwards, and barometer rising slightly on our extreme western coasts. Low pressure systems over Baltic uniting and becoming somewhat deeper.

Friday, 30th December.

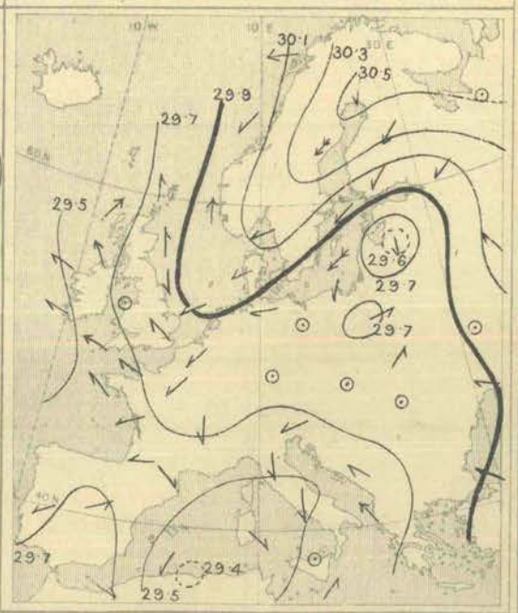
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather foggy over the inland parts of the south of England, and cloudy or overcast in most other parts of the United Kingdom, but fine and bright at one or two of the Irish and Scotch stations. Dull over the Continent generally, with snow in many parts of Russia, Germany, and Austria, but fine in France, and also in the west of Norway. A little rain falling during day on our extreme west and south-west coasts, fog dispersing in the south of England.

Temperature fallen generally, but risen over France, Austria, and the south of Russia. Morning readings highest, 59° at Malta, 57° at Palermo, 54° at La Calle, and 51° at Oran; ranging between 45° and 50° on the extreme south-west coasts of our Islands. Lowest, – 25° Fahr. at Archangel, – 15° at Kharkov, – 12° at Haparanda, and – 4° at Uleaborg; below 15° in Austria, and below 20° over the central parts of England and France. Thermometer remaining below the freezing point all day at some of the English stations, but exceeding 40° on our south-western, western, and extreme northern coasts. Exceeding 45° in the south of France and exceeding 50° in Italy and the Riviera.

Wind light from the Eastward or South-Eastward over the greater part of England, Ireland, and France, but fresh on our extreme south-west coasts; Southerly in the northern parts of Scotland and Ireland, North-Easterly or Northerly in Finland and Sweden, Easterly in Norway and Denmark, light from the Southward over the central and southern parts of Russia, Northerly or North-Easterly in Spain and Italy, Southerly or South-Westerly in Algeria. No important change occurring over western Europe during day, but North-Easterly gale springing up in Sweden.

Barometer highest, 30·3 ins. and upwards over the extreme northern parts of Russia and Scandinavia; 29·9 ins. and upwards in a "ridge" extending in a south-westerly direction, and embracing the greater part of the North Sea. Lowest, 29·5 ins. and less in a depression lying to the south-westward of our Islands, 29·6 ins. and less in a large shallow disturbance over the western parts of the Mediterranean, 29·7 ins. and less in a well-marked system lying over the Baltic Provinces. Anticyclone subsequently spreading further westwards; depression off our south-west coasts beginning to move slowly south-eastwards.

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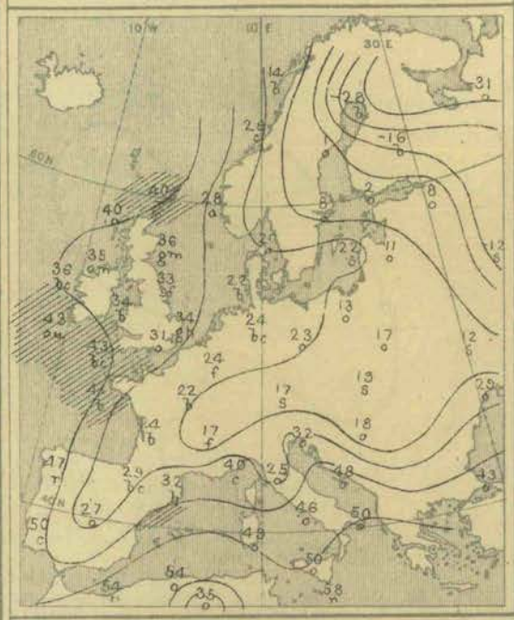
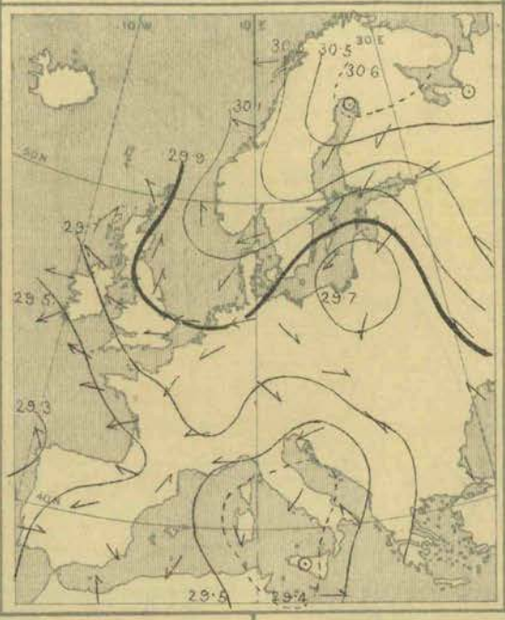
III.—SUMMARY OF WEATHER OVER EUROPE.

Saturday, 31st December.

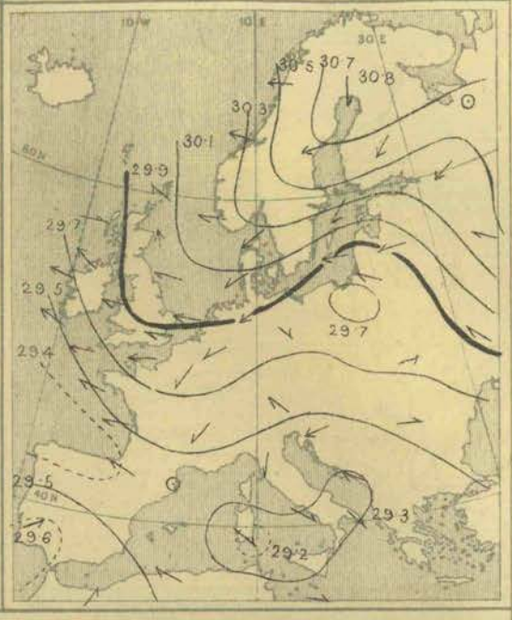
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather fine and bright at some of our own western and northern stations, as well as in France and Lapland. Dull elsewhere, with rain at Corunna and San Fernando, and with snow at several of the Russian stations, as well as at Munich. Snow falling later in the north and north-east of Great Britain; heavy rain falling over Tunis and southern Italy.

Temperature fallen in most parts of our Islands and the Continent, but risen considerably over central England. Morning readings highest, 58° at Malta, 55° at Sanguinaire, and 54° at Nemours and Algiers; above 45° at several of the Mediterranean stations, and above 40° in the extreme south-west of our Islands. Lowest, – 31° Fahr. at Archangel, – 28° at Haparanda, – 16° at Kuopio, and – 14° at Uleaborg; below zero at many of the Russian stations, and below the freezing point over northern, eastern, and central Europe generally, as well as in many parts of Great Britain. Daily maxima below 40° over the greater part of our Islands, but thermometer reaching 45° on our extreme south-west coasts. Exceeding 50° over Italy and the south of France, and reaching 61° at Palermo.

Wind Easterly or South-Easterly over England, Ireland, and France, with a moderate gale on our south-west coasts; Southerly in Scotland, and strong to a gale at Wick. North-Easterly over Finland, Denmark, the Baltic, and the south of Scandinavia, with gales at Helsingfors and Wisby; Northerly or North-Westerly in Germany, variable in Austria; South-Easterly over the central and southern parts of Russia. Chiefly Northerly in Italy, but variable in Spain and Algeria. Subsequently increasing to a moderate gale from the Eastward on our south and south-east coasts generally.

Barometer highest, 30·6 ins. and upwards in Lapland; 30·3 ins. and upwards over all the more northern parts of Sweden and Russia. Lowest, 29·3 ins. and less in a depression lying off the north-west of Spain; 29·4 ins. and less in another system lying over Italy and the adjacent parts of the Mediterranean; 29·7 ins. and less in a third situated over west Russia and the Baltic Provinces. Anticyclone in north subsequently spreading south-westwards; depression off north-west of Spain moving eastwards.

GENERAL NOTES.

At the commencement of the week an anticyclone formed over the United Kingdom in the rear of a depression which travelled past our south-west coasts to the Bay of Biscay and southern Europe, the high-pressure system ultimately spreading eastwards until it became united with another area previously existing over Russia. The extension of the anticyclone was accompanied by frosty weather in all the regions exposed to its influence, and by thick fogs at many of the inland stations. On the 28th, some low-pressure systems began to skirt our extreme western coasts, and Southerly winds set in over our Islands with clearer and somewhat milder weather. Further depressions were also developed over the Baltic and the neighbouring provinces, where snow fell in considerable quantity, with North-Easterly gales over Finland and Sweden. At the close of the week, however, a new high-pressure system of considerable intensity was appearing over Lapland, and was spreading out in a south-westerly direction, while the depressions off our western coasts were moving away south-eastwards towards the Bay of Biscay and France. The wind over our Islands, therefore, shifted to the Eastward, from which quarter it blew strongly in the Channel, with a slight gale in places.

BRIGHT SUNSHINE Values for the Week in addition to those found on page 308.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	2·7	?	6	?	EASTBOURNE	24·1	?	45	?
OSWALDKIRK (Yorkshire)	17·9	?	35	?	TENBY	11·6*	?	22*	?
WORKSOP	10·4	+ 2·9	20	+ 6	NEWQUAY	22·0	?	39	?
THURCASTON (Leicestershire)	11·7	+ 5·9	23	+12	TORQUAY	17·9*	?	32*	?
MARGATE	19·1	?	35	?	ARLEY COTTAGE (County Cavan)	17·5	?	34	?
WESTBOURNE (Sussex)	16·3*	?	30*	?	GUERNSEY	30·2*	?	53*	?
BRIGHTON	20·3	?	38	?					

The values at Westbourne, Tenby, Torquay and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

Date of Report.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each Day.	Of Lowest each Day.	For whole of each Day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
Oct. 22nd, 1892.	Strathfield Turgess	59	31	50·8	34·9	42·6	–5·2	34	20	3	0·06	–0·53	—	—	—	—
„ 29th, „	Jersey	—	—	—	—	—	—	—	—	—	—	—	7·5	–7·5	25	– 9
„ „ „	Newquay	—	—	—	—	—	—	—	—	—	—	—	19·6	?	28	?
Nov. 26th, „	Cambridge	—	—	—	—	—	—	—	—	—	—	—	3·1	–9·7	6	–16
Dec. 3rd, „	Lairg	54	14	41·3	28·1	34·7	–2·3	0	51	7	1·60	+0·72	—	—	—	—
„ „ „	Edgeworthstown	53	26	45·4	34·6	40·0	–0·2	10	28	6	0·71	–0·13	—	—	—	—
„ 10th, „	Cambridge	—	—	—	—	—	—	—	—	—	—	—	21·3	+11·3	39	+21
„ 24th, „	Brighton	—	—	—	—	—	—	—	—	—	—	—	4·9	?	9	?
„ „ „	Blackpool	48	29	42·4	37·9	40·2	+1·4	1	15	2	0·17	–0·55	0·0	–5·8	0	–12
„ „ „	Scarborough	54	29	44·9	36·3	41·7	+3·3	8	16	2	0·08	–0·52	—	—	—	—

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QUARTERLY SUMMARY OF THE WEEKLY WEATHER REPORT, 1892.

VOL. IX. APPENDIX I.] *New Series.*

FIRST QUARTER—JANUARY TO MARCH.

[*Price 4d.*

TABLE I.—SUMMARY OF RAINFALL AND MEAN TEMPERATURE, FOR THE FIRST QUARTER OF THE TWENTY-SEVEN YEARS, 1866 TO 1892.

RAINFALL (in Inches).

YEARS.	Principal Wheat-producing Districts.												Principal Grazing, &c. Districts.										Channel Islands.		Means for the British Islands generality.	
	0. Scotland, N.		1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.		Means for Wheat-producing Districts.		6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for the Grazing, &c. Districts.					
	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.
Means for 5 years, 1866-70	—	12·6	—	9·6	—	5·4	—	5·7	—	6·9	—	8·5	—	7·2	—	12·6	—	11·8	—	13·7	—	11·8	—	11·9	—	12·2	—	—	—	9·7
Means for 5 years, 1871-75	—	9·1	—	7·8	—	4·9	—	4·4	—	6·6	—	7·1	—	6·2	—	11·1	—	10·4	—	13·7	—	9·5	—	10·5	—	11·0	—	—	—	8·6
Means for 5 years, 1876-80	—	9·5	—	7·2	—	5·3	—	5·7	—	6·2	—	7·2	—	6·3	—	11·2	—	9·5	—	9·9	—	9·2	—	10·0	—	10·0	—	—	—	8·2
1881	60	9·2	46	7·4	51	6·3	47	5·8	42	6·4	39	6·7	45	6·5	46	9·5	42	8·6	45	9·7	51	7·7	44	8·7	46	8·8	51	9·0	46	7·7
1882	73	10·3	48	5·2	32	3·1	32	4·3	35	5·6	34	3·6	36	4·4	62	11·9	49	7·8	49	7·1	63	8·3	69	9·7	57	9·0	48	5·8	47	6·7
1883	65	8·9	52	6·5	53	5·8	51	6·4	49	7·4	49	7·5	51	6·7	56	12·2	51	8·5	55	10·4	63	10·2	57	13·8	57	11·0	63	8·8	54	8·9
1884	66	12·1	52	6·4	44	6·2	42	3·9	47	6·7	48	6·7	46	6·0	68	17·1	57	11·5	62	12·2	70	12·2	72	15·4	66	13·7	59	9·2	56	9·9
1885	63	9·1	46	5·4	45	4·4	48	5·3	52	6·1	45	7·3	47	5·7	57	11·9	53	7·7	54	9·1	57	8·4	58	11·8	56	9·8	62	8·2	52	7·8
Means for 5 years, 1881-85	65	9·9	49	6·2	45	5·2	44	5·1	45	6·4	43	6·4	45	5·9	58	12·5	50	8·8	53	9·7	61	9·4	58	11·9	56	10·5	57	8·2	51	8·2
1886	70	9·5	55	5·9	56	6·3	54	4·9	49	6·5	48	6·3	53	6·0	57	11·2	54	9·0	57	10·8	58	10·0	55	11·2	56	10·4	68	8·9	55	8·2
1887	60	12·1	43	5·3	38	3·8	33	3·8	35	4·1	34	4·1	36	4·2	47	9·7	38	5·9	38	5·5	47	7·3	40	7·6	41	7·2	42	4·3	39	5·7
1888	62	10·2	55	6·9	49	5·6	50	5·1	43	4·6	46	5·8	49	5·6	41	8·6	51	5·0	48	7·1	47	7·2	41	7·6	46	7·1	61	7·3	48	6·4
1889	72	13·8	52	4·8	46	4·8	47	3·9	43	5·6	47	5·1	47	4·8	48	10·6	51	6·0	48	9·1	66	8·6	55	8·6	56	8·6	58	6·7	52	6·7
1890	67	15·2	54	8·1	48	5·3	52	5·6	46	5·1	46	5·6	49	5·9	60	13·6	56	8·4	53	8·9	62	8·7	58	12·7	58	10·5	54	8·3	54	8·2
Means for 5 years, 1886-90	66	12·2	52	6·2	47	5·2	47	4·7	43	5·2	44	5·4	47	5·3	53	10·7	50	6·9	49	8·3	56	8·4	50	9·5	52	8·8	57	7·1	50	7·1
1891	65	14·7	38	5·1	43	3·7	43	3·8	37	4·1	38	5·8	40	4·5	47	9·2	35	4·4	38	6·8	49	5·5	42	5·6	42	6·3	43	6·2	41	5·4
1892	63	11·2	46	5·5	47	4·4	40	4·0	44	4·0	38	3·7	45	4·3	47	8·0	46	6·3	47	6·4	49	5·9	45	7·6	47	6·8	52	6·9	47	5·6
Means for 27 years, 1866-92	—	10·8	—	7·2	—	5·1	—	5·0	—	6·1	—	6·8	—	6·0	—	11·4	—	9·2	—	10·7	—	9·4	—	10·3	—	10·2	—	—	—	8·1

MEAN TEMPERATURE (in Degrees Fahrenheit).

YEARS.	Principal Wheat-producing Districts.						Principal Grazing, &c. Districts.						Channel Islands.	Means for the British Islands generality.
	0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.	Means for Wheat-producing Districts.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	Means for the Grazing, &c. Districts.			
Means for 5 years, 1866-70	38°8	39°1	38°9	39°9	39°9	40°7	39°7	40°1	40°5	43°1	40°6	42°1	41°3	—	40°5
Means for 5 years, 1871-75	40·2	40·0	39·7	39·9	40·5	41·2	40·3	40·8	41·6	41·0	41·6	43·7	42·3	—	41·3
Means for 5 years, 1876-80	38·6	38·2	39·2	39·4	39·8	40·6	39·4	39·9	40·2	43·2	40·8	43·6	41·5	—	40·5
1881	34·4	33·5	34·3	36·1	35·8	38·2	35·6	35·3	36·6	39·9	37·5	39·8	37·8	44·5	36·7
1882	41·8	42·9	42·8	42·1	42·6	43·5	42·8	43·7	43·5	44·9	44·8	46·0	44·6	44·7	43·7
1883	38·7	38·8	38·8	39·0	39·2	40·8	39·3	40·2	40·1	42·2	40·9	42·5	41·2	44·8	40·3
1884	40·7	41·2	41·9	42·4	42·6	43·8	42·4	42·4	42·4	44·5	42·7	44·8	43·4	46·5	42·9
1885	38·4	38·3	39·2	39·2	39·3	40·7	39·3	39·6	39·7	41·9	40·6	42·2	40·8	43·9	40·1
Means for 5 years, 1881-85	38·8	38·9	39·4	39·8	39·9	41·4	39·9	40·2	40·5	42·7	41·3	43·1	41·6	44·9	44·8
1886	36·5	36·1	36·2	35·6	36·0	37·2	36·2	37·2	36·9	38·4	38·6	40·0	38·2	42·0	37·2
1887	39·4	39·2	38·7	37·5	37·8	38·7	38·4	39·8	39·0	40·4	41·3	42·3	40·6	42·7	39·5
1888	36·2	36·3	37·3	36·5	36·8	37·4	36·9	38·1	37·7	38·5	39·4	40·5	38·8	41·6	37·9
1889	38·5	38·6	38·6	37·5	38·2	39·0	38·4	40·1	39·7	40·8	41·3	42·9	41·0	44·1	39·7
1890	40·0	39·8	40·7	40·1	40·4	41·6	40·5	41·3	41·2	42·7	43·0	43·5	42·1	45·7	41·3
Means for 5 years, 1886-90	38·1	38·0	38·3	37·4	37·8	38·8	38·1	39·3	38·9	40·2	40·5	41·8	40·1	43·2	39·1
1891	38·4	38·0	37·9	37·4	38·0	38·4	37·9	39·6	39·5	40·2	40·8	42·3	40·5	43·1	39·2
1892	36·3	36·1	36·9	36·3	36·6	38·3	36·8	37·9	37·9	39·7	39·2	40·3	39·0	43 0	37·9
Means for 27 years, 1866-92	38·8	38·7	39·0	39·1	39·4	40·4	39·3	40·0	40·1	42·4	40·9	42·8	41·2	—	40·3

TABLE Ia.—SHOWING THE DATES OF THE DRIEST AND WETTEST, AND OF THE COLDEST AND WARMEST CORRESPONDING QUARTERS FOR THE TWENTY-SEVEN YEARS, 1866 TO 1892.

		Wheat Districts.	Grazing, &c. Districts.	Generally.
Rainfall	Driest	Ins. 4·2 in 1880 and 1887.	Ins. 6·3 in 1891	Ins. 5·4 in 1891
	Wettest	9·0 in 1872	14·9 in 1872	12·0 in 1872
Temperature	Coldest	35°6 in 1881	37°8 in 1881	36°7 in 1881
	Warmest	42°8 in 1882	44·6 in 1882	43·7 in 1882

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TABLE II.—SHOWING THE RAINFALL, ACCUMULATED TEMPERATURE, AND BRIGHT SUNSHINE FOR EACH MONTH, AND THE PROGRESSIVE VALUES FROM THE COMMENCEMENT OF THE YEAR, FOR THE FIRST QUARTER, 1892.

YEAR AND MONTHS.	0. Scotland, N.		Principal Wheat-producing Districts.												Principal Grazing, &c. Districts.												Channel Islands.		Means for the British Islands generally.	
			1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.		Means for Wheat producing Districts.		6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for the Grazing, &c. Districts.					
	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.
RAINFALL.—NUMBERS OF DAYS WITH RAIN.																														
January -	23	23	15	15	13	13	15	15	16	16	13	13	14	14	21	21	19	19	17	17	20	20	17	17	19	19	22	22	17	17
February -	22	45	18	33	18	31	16	31	16	32	15	28	17	31	17	38	15	34	21	38	18	38	19	36	18	37	19	41	18	35
March -	18	63	13	46	16	47	18	49	12	44	10	38	14	45	9	47	12	46	9	47	11	49	9	45	10	47	11	52	12	47
RAINFALL.—AMOUNTS IN INCHES.																														
January -	6·04	6·04	2·23	2·23	1·32	1·32	0·92	0·92	1·39	1·39	0·99	0·90	1·35	1·35	4·53	4·53	2·99	2·99	2·17	2·17	2·69	2·69	2·58	2·58	2·99	2·99	1·82	1·82	2·17	2·17
February -	3·24	9·28	2·03	4·26	1·77	3·09	1·58	2·50	1·75	3·14	1·51	2·41	1·73	3·08	2·54	7·07	2·14	5·13	3·03	5·20	2·25	4·94	3·72	6·30	2·74	5·73	3·77	5·59	2·24	4·41
March -	1·90	11·18	1·22	5·48	1·29	4·38	1·49	3·99	0·85	3·99	1·25	3·66	1·22	4·30	0·95	8·02	1·16	6·29	1·22	6·42	0·95	5·89	1·25	7·55	1·11	6·84	1·33	6·92	1·17	5·58
ACCUMULATED HEAT.—DAY DEGREES ABOVE 42° F.																														
January -	23	23	28	28	26	26	16	16	29	29	29	29	26	26	28	28	20	20	35	35	26	26	44	44	31	31	65	65	29	29
February -	23	46	29	57	30	56	39	55	43	72	55	84	39	65	38	66	33	53	68	103	50	76	82	126	54	85	97	162	47	76
March -	39	85	60	117	54	110	55	110	79	151	72	156	64	129	49	115	53	106	98	01	83	159	91	217	75	160	85	247	70	146
ACCUMULATED HEAT.—DAY DEGREES BELOW 42° F.																														
January -	194	194	214	214	196	196	235	235	230	230	171	171	209	209	159	159	163	163	143	143	142	142	134	134	148	148	55	55	179	179
February -	174	368	189	403	160	356	164	399	164	394	110	281	157	366	133	292	125	288	73	216	93	235	65	199	99	246	27	82	128	307
March -	236	604	264	667	233	589	261	660	273	667	209	490	248	614	222	514	221	513	165	381	182	417	164	363	191	437	78	160	220	527
BRIGHT SUNSHINE.—NUMBERS OF HOURS.																														
January -	22	22	34	34	32	32	42	42	44	44	52	52	41	41	35	35	34	34	58	58	35	35	45	45	41	41	45	45	41	41
February -	58	80	64	98	68	100	66	108	59	103	60	112	63	104	60	95	70	104	74	132	54	89	57	102	63	104	58	103	63	104
March -	143	223	144	242	152	252	132	240	139	242	155	267	144	248	154	249	161	265	193	325	136	225	165	267	162	266	199	302	153	257
BRIGHT SUNSHINE.—PERCENTAGES OF POSSIBLE DURATION.																														
January -	11	12	17	19	14	18	19	21	20	25	23	25	19	22	16	22	16	20	25	26	16	21	20	24	19	23	19	19	19	22
February -	22	14	26	22	27	22	25	22	22	22	22	21	25	22	23	20	27	20	27	25	20	17	21	20	24	20	21	18	24	21
March -	35	22	34	23	36	23	32	23	33	23	37	25	34	23	40	24	39	25	46	31	32	22	40	25	39	25	48	27	37	24

1892.

EXPLANATION OF TABLES.

TABLES I. and IA. are published in continuation of those given in the Quarterly Summaries of the Weekly Weather Reports, 1884-91. The whole of the values for 1878-92 have been corrected by information received since they were first published.

TABLE II. In this Table the monthly values for *January* are those for the first four weeks in the year; those for *February* are for the fifth to the eighth weeks; those for *March* are for the ninth to the thirteenth weeks.

The figures given in the columns headed "From Jan. 3" are the values for the whole period elapsed since the beginning of the first week of this year.

In the "Means for the Wheat Districts" the values for District 0, and in the "Means for the "Grazing, &c. Districts" the values for the "Channel Islands," are not included.

The Means for the British Islands generally are those for the Wheat Districts and Grazing Districts combined.

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QUARTERLY SUMMARY OF THE WEEKLY WEATHER REPORT, 1892.

VOL. IX. APPENDIX I.] *New Series.* SECOND QUARTER—APRIL TO JUNE. [*Price 4d.*

TABLE I.—SUMMARY OF RAINFALL AND MEAN TEMPERATURE, FOR THE SECOND QUARTER OF THE TWENTY-SEVEN YEARS, 1866 TO 1892.

	YEARS.	0. Scotland, N.		Principal Wheat-producing Districts.										Principal Grazing, &c. Districts.												Channel Islands.		Means for the British Islands generally.	
				1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.		Means for Wheat-producing Districts.		6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for the Graz- &c. Districts.					
		Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.
RAINFALL (in Inches).	Means for 5 years, 1866-70	—	8·8	—	5·7	—	5·5	—	4·5	—	5·3	—	5·1	—	5·2	—	7·1	—	6·5	—	7·0	—	7·5	—	7·2	—	7·1	—	—	—	6·2
	Means for 5 years, 1871-75	—	8·5	—	6·5	—	5·5	—	5·5	—	6·4	—	6·4	—	6·1	—	7·3	—	7·4	—	7·9	—	7·5	—	6·2	—	7·3	—	—	—	6·7
	Means for 5 years, 1876-80	—	6·3	—	6·9	—	7·1	—	7·2	—	7·7	—	7·1	—	7·2	—	8·5	—	7·8	—	9·0	—	8·3	—	9·8	—	8·7	—	—	—	8·0
	1881	49	7·0	45	5·6	41	4·5	35	4·3	37	4·3	33	4·2	38	4·6	49	9·3	44	8·6	42	6·1	55	8·5	48	8·3	47	8·2	41	4·6	43	6·4
	1882	51	7·4	51	7·4	47	9·2	48	8·0	49	9·9	47	7·9	48	8·5	51	10·5	51	10·6	55	10·2	60	9·4	56	10·3	55	10·2	49	6·6	52	9·3
	1883	48	5·7	40	3·8	39	6·0	36	6·7	39	7·2	36	5·1	38	5·8	45	7·8	38	5·9	42	6·1	52	6·2	44	7·6	44	6·7	42	5·9	41	6·2
	1884	48	6·4	39	3·6	30	3·2	33	3·8	32	4·2	31	4·7	35	3·9	40	5·4	32	3·8	32	4·9	42	5·8	38	4·6	37	4·9	42	4·9	37	4·4
	1885	61	6·8	46	5·5	48	6·1	43	6·5	48	6·8	43	6·0	46	6·2	48	7·3	45	6·0	50	8·7	50	6·1	46	7·8	48	7·2	50	6·0	47	6·7
	Means for 5 years, 1881-85	51	6·7	44	5·2	43	5·8	39	5·9	41	6·5	38	5·6	41	5·8	47	8·1	42	7·0	44	7·2	52	7·2	46	7·7	46	7·4	45	5·6	44	6·6
	1886	59	6·7	46	6·4	46	6·1	43	5·2	50	9·4	45	6·4	46	6·7	48	8·8	49	9·4	46	7·3	50	7·9	50	8·2	49	8·3	50	6·2	48	7·5
	1887	45	6·2	32	3·7	33	3·0	35	3·6	31	4·0	31	3·8	32	3·6	34	5·8	27	3·8	29	3·5	29	4·5	26	3·3	29	4·2	35	3·6	31	3·9
	1888	56	8·5	44	7·1	43	5·1	43	5·1	41	6·0	42	6·2	43	5·9	49	11·4	43	6·4	46	7·5	50	9·8	49	10·1	47	9·0	50	6·6	45	7·5
	1889	50	4·9	42	5·8	39	5·0	43	7·3	41	8·1	41	5·7	41	6·4	44	7·7	40	6·8	40	5·9	45	7·2	46	7·6	43	7·0	39	5·3	42	6·7
	1890	58	8·5	52	5·6	41	4·7	41	4·5	40	4·7	42	6·3	43	5·2	50	10·1	45	6·0	51	8·1	54	6·3	58	8·5	52	7·8	55	7·7	48	6·5
	Means for 5 years, 1886-90	54	7·0	43	5·7	40	4·8	41	5·1	41	6·4	40	5·7	41	5·5	45	8·8	41	6·5	42	6·5	46	7·1	46	7·5	44	7·3	46	5·9	43	6·4
	1891	45	6·3	36	4·4	35	4·3	41	5·5	43	6·7	38	4·8	39	5·1	36	5·0	39	5·9	42	7·2	46	6·1	45	8·4	42	6·5	41	6·2	41	5·8
	1892	59	9·1	51	6·4	51	7·3	42	6·1	38	5·5	31	3·7	43	5·8	49	10·0	50	8·3	37	4·6	53	9·6	46	8·0	47	8·1	37	4·8	45	7·0
	Means for 27 years, 1866-92	—	7·5	—	5·9	—	5·7	—	5·7	—	6·4	—	5·8	—	5·9	—	7·9	—	7·0	—	7·4	—	7·6	—	7·7	—	7·5	—	—	—	6·7
MEAN TEMPERATURE (in Degrees Fahrenheit).	Means for 5 years, 1866-70	48°5		50°4		49°8		52°7		53°1		53°1		51°8		51°3		51°8		53°9		52°5		53°0		52°5		—		52°2	
	Means for 5 years, 1871-75	48·2		49·8		49·6		51·0		52·0		52·1		50·9		51·1		51·3		53·0		51·6		53·3		52·1		—		51·5	
	Means for 5 years, 1876-80	47·2		48·9		49·4		51·1		51·3		51·9		50·5		50·2		50·5		52·0		50·1		52·0		51·0		—		50·8	
	1881	46·8		50·1		50·6		52·6		52·9		53·5		51·9		50·8		51·8		52·5		51·8		52·8		51·9		53·4		51·9	
	1882	47·5		49·4		50·4		52·4		52·2		53·8		51·6		50·7		51·8		52·4		51·2		52·2		51·7		53·9		51·7	
	1883	47·3		50·1		50·2		52·1		52·2		52·9		51·5		50·0		51·0		51·7		50·5		51·5		50·9		52·6		51·2	
	1884	46·8		49·4		50·0		51·2		51·4		52·4		50·9		50·1		50·6		51·5		50·6		51·8		50·9		52·6		50·9	
	1885	45·8		48·6		49·0		50·5		50·2		51·8		50·0		48·3		49·0		50·0		48·7		49·6		49·1		51·1		49·6	
	Means for 5 years, 1881-85	46·8		49·5		50·0		51·8		51·8		52·9		51·2		50·0		50·8		51·6		50·6		51·6		50·9		52·7		51·1	
	1886	45·6		47·8		47·9		50·5		50·5		52·0		49·7		48·1		49·4		51·2		48·9		50·8		49·7		52·1		49·7	
	1887	48·4		50·5		50·3		51·4		52·0		52·4		51·3		51·0		51·2		52·6		52·2		53·3		52·1		53·2		51·7	
	1888	46·5		47·6		48·4		50·5		50·5		51·1		49·6		49·4		49·9		50·8		50·0		51·8		50·4		51·9		50·0	
	1889	49·7		50·9		51·3		53·1		53·4		54·7		52·7		51·9		52·6		53·0		51·7		52·4		52·3		54·0		52·5	
	1890	48·0		49·2		49·8		51·4		51·2		52·6		50·8		50·2		51·0		52·0		50·9		52·1		51·2		52·9		51·0	
	Means for 5 years, 1886-90	47·6		49·2		49·5		51·4		51·5		52·6		50·8		50·1		50·8		51·9		50·7		52·1		51·1		52·8		51·0	
	1891	47·5		48·2		48·8		50·7		50·8		52·3		50·2		50·1		50·5		51·5		50·5		51·7		50 9		53·0		50·6	
	1892	46·8		48·2		49·6		51·6		51·6		52·5		50·7		49·6		50·8		51·8		50·6		52·2		51·0		53·6		50·9	
	Means for 27 years, 1866-92	47·6		49·5		49·6		51·6		51·9		52·5		51·6		50·5		51·0		52·4		51·1		52·4		51·5		—		51·3	

TABLE Ia.—SHOWING THE DATES OF THE DRIEST AND WETTEST, AND OF THE COLDEST AND WARMEST CORRESPONDING QUARTERS FOR THE TWENTY-SEVEN YEARS, 1866 TO 1892.

		Wheat Districts.	Grazing, &c. Districts.	Generally.
Rainfall	Driest	Ins. 3·1 in 1870	Ins. 4·2 in 1887	Ins. 3·9 in 1887
	Wettest	9·4 in 1879	{10·3 in 1872 and 1878 / 10·2 in 1879 and 1882}	9·8 in 1879
Temperature	Coldest	48°4 in 1879	49°1 in 1879 and 1885	48°8 in 1879
	Warmest	54·0 in 1868	53·6 in 1868	53·8 in 1868

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TABLE II.—SHOWING THE RAINFALL, ACCUMULATED TEMPERATURE, AND BRIGHT SUNSHINE FOR EACH MONTH, AND THE PROGRESSIVE VALUES FROM THE COMMENCEMENT OF THE YEAR, FOR THE SECOND QUARTER, 1892.

YEAR AND MONTHS.	0. Scotland, N.		Principal Wheat-producing Districts.										Means for Wheat producing Districts.		Principal Grazing, &c. Districts.										Means for the &c. Grazing, Districts.		Channel Islands.		Means for the British Islands generally.	
			1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.				6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.							
	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.
1892.																														
RAINFALL.—NUMBERS OF DAYS WITH RAIN.																														
April	17	80	11	57	14	61	13	62	9	53	9	47	11	56	13	60	14	60	12	59	15	64	13	58	13	60	14	66	12	59
May	21	101	17	74	16	77	11	73	12	65	8	55	13	69	17	77	16	76	12	71	16	80	16	74	15	75	9	75	14	73
June	21	122	23	97	21	98	18	91	17	82	14	69	19	88	19	96	20	96	13	84	22	102	17	91	18	93	14	89	19	92
RAINFALL.—AMOUNTS IN INCHES.																														
April	2·00	13·18	0·95	6·43	1·26	5·64	1·60	5·59	0·87	4·86	0·97	4·63	1·13	5·43	1·26	9·28	1·45	7·74	1·65	8·07	1·16	7·05	1·16	8·71	1·34	8·18	1·76	8·68	1·24	6·82
May	3·33	16·51	2·38	8·81	2·34	7·98	1·43	7·02	1·78	6·64	0·63	5·26	1·71	7·14	4·60	13·88	3·08	10·82	1·37	9·44	3·86	10·91	3·21	11·92	3·22	11·40	1·48	10·16	2·47	9·29
June	3·72	20·23	3·10	11·91	3·73	11·71	3·03	10·05	2·88	9·52	2·06	7·32	2·96	10·10	4·13	18·01	3·77	14·59	1·60	11·04	4·58	15·49	3·60	15·52	3·54	14·94	1·56	11·72	3·25	12·54
ACCUMULATED HEAT.—DAY DEGREES ABOVE 42° F.																														
April	92	177	116	233	115	225	173	283	193	344	185	341	156	285	139	254	138	244	180	381	153	312	192	409	160	320	177	424	158	304
May	161	338	202	435	236	451	290	573	302	646	305	646	265	550	231	485	255	499	274	655	242	554	236	695	258	578	302	726	262	566
June	315	653	373	808	436	887	499	1072	493	1139	515	1161	463	1013	395	880	457	956	472	1127	431	985	477	1172	446	1024	550	1276	455	1021
ACCUMULATED HEAT.—DAY DEGREES BELOW 42° F.																														
April	120	724	113	780	80	669	89	749	101	768	50	540	87	701	80	594	59	566	40	421	61	478	41	404	56	492	4	164	72	598
May	24	748	26	806	15	684	19	768	28	796	14	554	20	721	15	609	13	579	12	433	6	484	6	410	10	502	0	164	15	613
June	6	754	4	810	0	684	3	771	6	802	0	554	3	724	1	610	0	579	0	433	0	484	0	410	0	502	0	164	2	615
BRIGHT SUNSHINE.—NUMBERS OF HOURS.																														
April	159	382	181	423	164	416	195	435	190	432	207	474	187	435	186	435	193	454	213	538	179	404	196	463	193	458	208	510	190	446
May	151	533	172	595	153	569	174	609	166	598	197	671	172	607	164	599	156	610	180	718	143	547	159	622	160	618	265	775	166	612
June	169	702	208	803	203	772	271	880	251	849	284	955	243	850	221	820	240	850	252	970	220	767	224	846	231	849	317	1092	237	849
BRIGHT SUNSHINE.—PERCENTAGES OF POSSIBLE DURATION.																														
April	40	29	46	31	42	30	52	33	49	32	54	35	49	32	47	32	50	34	56	40	46	29	51	34	50	34	55	38	50	33
May	34	31	39	35	35	34	40	35	39	35	46	38	40	35	38	36	36	36	43	43	33	32	37	37	37	37	64	43	39	36
June	28	30	35	35	35	34	48	38	44	37	50	41	42	37	37	35	41	37	45	43	37	33	39	37	4	37	57	47	41	37

EXPLANATION OF TABLES.

TABLES I. and IA. are merely in continuation of the Tables given in the Quarterly Summaries of the Weekly Weather Reports, 1884-91. The whole of the values for 1878-92, however, have been corrected by information received since they were first published.

TABLE II. In this Table the monthly values for *April* are those for the fourteenth to seventeenth weeks in the year; those for *May* are for the eighteenth to the twenty-first weeks; those for *June* are for the twenty-second to the twenty-sixth weeks of the year.

The figures given in the columns headed "From Jan. 3" are the values for the whole period elapsed since the beginning of the first week of the year.

In the "Means for the Wheat Districts" the values for District 0, and in the "Means for the "Grazing, &c. Districts" the values for the "Channel Islands," are not included.

The Means for the British Islands generally are those for the Wheat Districts and Grazing Districts combined.

QUARTERLY SUMMARY OF THE WEEKLY WEATHER REPORT, 1892.

VOL. IX. APPENDIX I.] *New Series.* THIRD QUARTER—JULY TO SEPTEMBER. [*Price 4d.*

TABLE I.—SUMMARY OF RAINFALL AND MEAN TEMPERATURE, FOR THE THIRD QUARTER OF THE TWENTY-SEVEN YEARS, 1866 TO 1892.

	YEARS.	Principal Wheat-producing Districts.														Principal Grazing, &c. Districts.												Channel Islands.		Means for the British Islands generally.	
		0. Scotland, N.		1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.		Means for Wheat-producing Districts.		6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for the Grazing, &c. Districts.					
		Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.
RAINFALL (in Inches).	Means for 5 years, 1866-70	—	10·6	—	8·8	—	6·3	—	6·1	—	7·4	—	7·3	—	7·2	—	10·9	—	9·9	—	10·1	—	9·8	—	8·6	—	9·8	—	—	—	8·6
	Means for 5 years, 1871-75	—	13·1	—	10·7	—	8·4	—	7·5	—	9·1	—	8·0	—	8·7	—	13·2	—	12·9	—	14·1	—	12·2	—	10·8	—	12·6	—	—	—	10·7
	Means for 5 years, 1876-80	—	9·0	—	8·9	—	9·2	—	9·0	—	10·1	—	8·7	—	9·2	—	11·7	—	12·3	—	11·6	—	11·1	—	10·7	—	11·5	—	—	—	10·4
	1881	49	6·5	50	9·1	51	10·3	51	8·5	47	8·3	47	8·2	49	8·9	55	10·4	50	11·0	49	9·4	63	8·6	55	10·3	54	9·9	51	7·8	52	9·4
	1882	60	8·2	57	8·0	56	6·9	48	7·0	55	8·1	49	7·2	53	7·4	57	12·3	55	11·5	57	13·2	65	11·5	59	11·1	59	11·9	59	8·1	56	9·7
	1883	59	8·5	57	10·1	51	8·3	52	8·1	50	8·9	49	6·7	52	8·4	54	12·2	51	9·8	58	10·1	61	11·4	57	12·8	56	11·3	62	9·5	54	9·9
	1884	53	7·8	48	6·3	35	5·3	38	7·4	40	6·2	44	5·9	41	6·2	55	12·3	48	9·0	52	8·6	59	10·2	48	7·1	52	9·4	52	7·1	47	7·8
	1885	59	8·1	45	6·0	36	5·7	36	6·2	35	5·9	33	5·1	37	5·8	46	11·6	43	7·8	42	8·8	51	9·9	46	9·9	46	9·6	45	5·7	42	7·7
	Means for 5 years, 1881-85	56	7·8	51	7·9	46	7·3	45	7·4	45	7·5	44	6·6	46	7·3	53	11·8	49	9·8	52	10·0	60	10·3	53	10·2	53	10·4	54	7·6	50	8·9
	1886	59	8·7	43	5·0	41	6·8	38	6·5	39	6·4	35	5·8	39	6·1	48	11·4	42	10·3	40	9·3	54	9·3	53	10·9	47	10·2	48	7·2	43	8·2
	1887	63	10·3	53	7·6	44	6·1	42	5·4	35	5·2	35	5·8	42	6·0	49	10·8	43	7·1	37	7·3	55	10·5	46	7·9	46	8·7	40	6·2	44	7·4
	1888	55	9·3	52	7·1	49	9·2	53	8·4	48	7·9	46	7·9	50	8·1	53	10·6	50	10·5	53	11·0	54	10·3	44	9·3	51	10·3	51	8·6	51	9·2
	1889	58	11·0	51	8·8	48	7·7	48	9·1	44	7·8	41	6·6	46	8·0	51	10·8	48	10·2	50	9·1	60	11·9	50	9·8	52	10·4	47	6·0	49	9·2
	1890	65	12·1	54	8·4	48	8·3	44	7·2	47	6·6	44	8·6	47	7·8	54	12·0	53	9·2	52	9·8	65	10·2	55	8·4	56	9·9	44	8·1	52	8·9
	Means for 5 years, 1886-90	60	10·3	51	7·4	46	7·6	45	7·3	43	6·8	40	6·9	45	7·2	51	11·1	47	9·5	46	9·3	58	10·4	50	9·3	50	9·9	46	7·2	48	8·6
	1891	71	15·9	59	11·7	51	8·8	51	8·5	52	7·9	52	9·0	53	9·2	62	14·9	55	13·8	56	12·9	66	11·3	56	11·0	59	12·8	51	9·7	56	11·0
	1892	66	15·0	51	8·3	44	6·6	40	8·2	46	7·5	44	8·4	45	7·8	53	15·5	53	12·1	51	10·0	62	12·0	53	13·2	54	12·5	43	7·2	50	10·2
	Means for 27 years, 1866-92	—	10·5	—	8·8	—	7·8	—	7·5	—	8·1	—	7·6	—	8·0	—	12·0	—	11·0	—	11·0	—	10·8	—	10·1	—	11·0	—	—	—	9·5
MEAN TEMPERATURE (in Degrees Fahrenheit).	Means for 5 years, 1866-70	54°·4		57°·1		57°·0		59°·7		59°·7		60°·1		58°·7		57°·9		59°·0		61°·0		58°·5		59°·5		59°·2		—		59°·0	
	Means for 5 years, 1871-75	54·5		56·7		57·5		59·7		59·6		60·0		58·7		57·7		58·5		60·4		57·2		58·8		58·5		—		58·6	
	Means for 5 years, 1876-80	54·1		56·4		57·6		59·6		59·3		60·3		58·6		57·2		58·1		59·9		56·8		59·0		58·2		—		58·4	
	1881	52·1		56·8		56·8		58·6		57·7		59·4		57·9		54·8		56·4		57·5		55·8		56·4		56·2		59·8		57·1	
	1882	54·2		56·6		57·7		58·2		57·1		58·8		57·7		56·0		56·8		57·4		55·9		56·2		56·5		58·9		57·1	
	1883	52·9		55·8		56·9		58·5		57·7		59·5		57·7		55·9		57·2		57·5		55·8		56·9		56·7		59·1		57·2	
	1884	54·5		57·5		59·1		61·8		60·7		62·4		60·3		58·2		59·6		60·5		57·9		59·0		59·0		61·7		59·7	
	1885	51·7		55·0		56·2		58·0		57·7		59·6		57·3		54·8		56·2		57·7		55·7		57·3		56·3		59·6		56·8	
	Means for 5 years, 1881-85	53·1		56·3		57·3		59·0		58·2		59·9		58·1		55·9		57·2		58·1		56·2		57·2		56·9		59·8		57·6	
	1886	52·4		56·1		58·1		60·2		59·7		61·3		59·1		55·8		57·7		59·4		56·5		58·2		57·5		61·0		58·3	
	1887	52·9		55·8		57·1		59·1		58·2		59·7		58·0		55·6		57·5		58·7		56·5		58·4		57·3		61·2		57·7	
	1888	51·7		53·2		54·4		57·1		55·8		58·0		55·7		54·2		55·4		56·7		55·0		56·2		55·5		58·9		55·6	
	1889	53·2		54·7		56·4		58·1		57·5		59·4		57·2		55·5		56·9		58·0		56·1		57·5		56·8		60·3		57·0	
	1890	53·8		55·7		57·7		58·8		58·1		59·8		58·0		56·1		57·5		58·1		56·5		57·6		57·2		59·2		57·6	
	Means for 5 years, 1886-90	52·8		55·1		56·7		58·7		57·9		59·6		57·6		55·4		57·0		58·2		56·1		57·6		56·9		60·1		57·3	
	1891	54·0		55·7		57·0		58·4		57·5		59·2		57·6		56·1		57·4		57·4		56·6		57·3		57·0		59·8		57·3	
	1892	52·1		53·5		55·4		57·6		56·5		59·2		56·4		54·4		56·2		57·6		55·1		57·0		56·1		60·6		56·3	
	Means for 27 years, 1866-92	53·7		56·2		57·2		59·2		58·8		59·9		58·3		56·7		57·9		59·4		56·9		58·3		57·8		—		58·1	

TABLE Ia.—SHOWING THE DATES OF THE DRIEST AND WETTEST, AND OF THE COLDEST AND WARMEST CORRESPONDING QUARTERS FOR THE TWENTY-SEVEN YEARS, 1866 TO 1892.

		Wheat Districts.	Grazing, &c. Districts.	Generally.
Rainfall	Driest	Ins. 4·9 in 1870	Ins. 6·4 in 1870	Ins. 5·7 in 1870
	Wettest	10·6 in 1879	14·2 in 1872	12·4 in 1879
Temperature	Coldest	55°·7 in 1888	55°·5 in 1888	55°·6 in 1888
	Warmest	60°·9 in 1868	60°·8 in 1868	60°·9 in 1868

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TABLE II.—SHOWING THE RAINFALL, ACCUMULATED TEMPERATURE, AND BRIGHT SUNSHINE FOR EACH MONTH, AND THE PROGRESSIVE VALUES FROM THE COMMENCEMENT OF THE YEAR, FOR THE THIRD QUARTER, 1892.

YEAR AND MONTHS.	0. Scotland, N.		Principal Wheat-producing Districts.												Principal Grazing, &c. Districts.												Channel Islands.		Means for the British Islands generally.	
			1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.		Means for Wheat-producing Districts.		6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for the &c. Grazing, Districts.					
	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.
RAINFALL.—NUMBERS OF DAYS WITH RAIN.																														
July	15	137	12	109	11	109	12	103	11	93	11	80	11	99	8	104	11	107	13	97	12	114	11	102	11	104	9	98	11	103
August	22	159	17	126	14	123	11	114	13	106	14	94	14	113	19	123	15	122	13	110	20	134	18	120	17	121	13	111	16	119
September	29	188	22	148	19	142	17	131	22	128	19	113	20	133	26	149	27	149	25	135	30	164	24	144	26	147	21	132	23	142
RAINFALL.—AMOUNTS IN INCHES.																														
July	2·68	22·91	1·81	13·72	1·41	13·12	2·54	12·59	2·44	11·96	2·12	9·44	2·06	12·16	2·71	20·72	2·13	16·72	2·44	13·48	1·94	17·43	2·61	18·13	2·37	17·31	1·17	12·89	2·22	14·76
August	4·82	27·73	2·53	16·25	2·14	15·26	2·72	15·31	1·73	13·69	2·86	12·30	2·40	14·56	4·88	25·60	3·61	20·33	2·33	15·81	4·71	22·14	5·75	23·88	4·26	21·57	2·37	15·26	3·33	18·09
September	7·53	35·26	3·97	20·22	3·01	18·27	2·93	18·24	3·31	17·00	3·39	15·69	3·32	17·88	7·86	33·46	6·36	26·69	5·26	21·07	5·30	27·44	4·83	28·71	5·92	27·49	3·70	18·96	4·62	22·71
ACCUMULATED HEAT.—DAY DEGREES ABOVE 42° F.																														
July	305	958	342	1150	357	1244	430	1502	396	1535	472	1633	399	1412	371	1251	396	1360	443	1570	385	1370	430	1602	405	1429	504	1780	402	1434
August	346	1304	394	1544	444	1688	495	1997	472	2007	538	2171	469	1881	407	1658	454	1814	495	2065	423	1793	487	2089	453	1882	574	2354	461	1885
September	249	1553	277	1821	386	2074	453	2450	408	2415	514	2685	408	2289	315	1973	408	2222	447	2512	354	2147	420	2509	389	2271	584	2938	399	2284
ACCUMULATED HEAT.—DAY DEGREES BELOW 42° F.																														
July	0	754	0	810	0	684	0	771	0	802	0	554	0	724	0	610	0	579	0	433	0	484	0	410	0	502	0	164	0	615
August	0	754	0	810	0	684	0	771	0	802	0	554	0	724	0	610	0	579	0	433	0	484	0	410	0	502	0	164	0	615
September	10	764	6	816	0	684	0	771	0	802	0	554	1	725	0	610	0	579	0	433	0	484	0	410	0	502	0	164	1	616
BRIGHT SUNSHINE.—NUMBERS OF HOURS.																														
July	129	831	121	924	114	884	147	1027	126	975	185	1140	139	909	157	977	146	996	192	1162	129	896	145	991	154	1003	236	1328	147	996
August	88	919	129	1053	113	997	172	1199	152	1127	174	1314	148	1137	113	1120	124	1120	166	1328	103	999	95	1086	126	1129	228	1556	137	1133
September	89	1008	135	1188	142	1139	158	1357	138	1265	163	1477	147	1284	135	1255	125	1245	137	1465	120	1119	133	1219	130	1259	202	1758	139	1272
BRIGHT SUNSHINE.—PERCENTAGES OF POSSIBLE DURATION.																														
July	28	29	26	33	25	33	33	38	28	36	42	42	31	36	34	35	32	36	44	42	29	32	32	36	34	36	55	49	33	36
August	21	29	31	33	27	31	43	38	37	35	43	42	36	36	35	35	30	35	41	42	25	32	23	35	31	36	55	50	34	36
September	20	28	30	33	32	31	36	38	31	35	36	42	33	36	31	35	28	35	31	42	27	31	30	34	29	35	46	50	31	36

1892.

EXPLANATION OF TABLES.

TABLES I. and IA. are merely in continuation of the Tables given in the Quarterly Summaries of the Weekly Weather Reports, 1884-91. The whole of the values for 1878-92, however, have been corrected by information received since they were first published.

TABLE II. In this Table the monthly values for *July* are those for the twenty-seventh to the thirtieth weeks in the year; those for *August* are for the thirty-first to the thirty-fourth weeks; those for *September* are for the thirty-fifth to the thirty-ninth weeks.

The figures given in the columns headed "From Jan. 3" are the values for the whole period elapsed since the beginning of the first week of the year.

In the "Means for the Wheat Districts" the values for District 0, and in the "Means for the "Grazing, &c. Districts" the values for the "Channel Islands," are not included.

The Means for the British Islands generally are those for the Wheat Districts and Grazing Districts combined.

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QUARTERLY SUMMARY OF THE WEEKLY WEATHER REPORT, 1892.

VOL. IX. APPENDIX I.] *New Series.*

FOURTH QUARTER—OCTOBER TO DECEMBER.

[*Price 4d.*

TABLE I.—SUMMARY OF RAINFALL AND MEAN TEMPERATURE, FOR THE FOURTH QUARTER OF THE TWENTY-SEVEN YEARS, 1866 TO 1892.

	YEARS.	Principal Wheat-producing Districts.												Principal Grazing, &c. Districts.												Channel Islands.		Means for the British Islands generally.	
		0. Scotland, N.		1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.		Means for Wheat-producing Districts.		6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for the Grazing, &c. Districts.					
		Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.
RAINFALL (in Inches).	Means for 5 years, 1866-70	—	18·4	—	8·8	—	7·7	—	7·4	—	7·6	—	8·3	—	8·0	—	12·9	—	14·7	—	14·6	—	12·6	—	10·5	—	13·1	—	—	—	10·6
	Means for 5 years, 1871-75	—	17·2	—	10·4	—	7·7	—	7·2	—	7·0	—	9·9	—	8·6	—	13·1	—	13·3	—	16·3	—	11·1	—	12·1	—	13·2	—	—	—	10·9
	Means for 5 years, 1876-80	—	13·8	—	9·1	—	8·1	—	7·2	—	8·1	—	9·5	—	8·4	—	12·8	—	12·0	—	14·1	—	11·0	—	11·3	—	12·2	—	—	—	10·3
	1881	64	11·2	58	7·2	54	7·2	60	8·5	51	8·6	52	9·5	55	8·2	56	15·8	54	11·9	59	14·2	65	12·1	62	13·4	59	13·5	65	12·6	57	10·9
	1882	71	11·9	67	11·4	72	11·2	69	11·7	71	13·0	67	12·6	69	12·0	63	16·9	67	13·2	74	19·8	65	12·5	68	14·8	67	15·4	83	19·0	68	13·7
	1883	75	14·8	48	5·8	53	5·8	60	7·6	52	7·4	49	7·2	52	6·8	66	18·4	57	11·3	62	11·8	71	12·2	60	11·1	63	13·0	63	10·3	58	9·9
	1884	68	14·6	52	6·9	44	5·1	50	6·9	47	5·3	42	6·0	47	6·0	52	16·1	51	8·7	57	10·2	64	13·2	54	9·8	56	11·6	62	8·7	52	8·8
	1885	63	11·0	45	4·6	51	7·0	55	9·2	52	8·6	50	9·0	51	7·7	52	11·8	50	9 8	59	12·7	54	8·9	59	10·1	55	10·7	62	11·3	53	9·2
	Means for 5 years, 1881-85	68	12·7	54	7·2	55	7·3	59	8·8	55	8·6	52	8·9	55	8·2	58	15·8	56	11·0	62	13·7	64	11·8	61	11·8	60	12·3	67	12·4	58	10·5
	1886	75	14·3	60	7·8	56	10·0	58	9·5	64	10·9	67	14·4	61	10·5	65	16·8	69	14·2	[illegible]	19·1	71	15·5	69	16·0	70	16·3	85	16·3	65	13·4
	1887	73	13·0	55	7·8	59	7·7	56	6·3	47	5·9	50	7·8	53	7·1	51	12·4	55	8·1	55	12·0	57	10·0	47	9·7	53	10·4	64	11·9	53	8·8
	1888	69	15·9	57	9·3	46	5·7	42	5·6	43	8·4	50	8·6	48	7·5	57	16·8	56	10·1	61	14·0	60	10·4	63	13·8	61	13·0	65	10·2	55	10·3
	1889	65	12·3	52	6·6	49	6·6	51	6·0	47	5·3	46	8·2	49	6·5	58	13·3	58	9·4	59	11·8	61	10·8	59	11·6	58	11·4	66	12·2	54	9·0
	1890	74	19·3	62	10·8	56	6·7	46	5·4	49	5·6	48	4·9	51	6·7	60	17·1	56	11·4	62	11·3	65	13·6	58	11·8	60	13·0	63	8·9	56	9·9
	Means for 5 years, 1886-90	71	15·0	57	8·5	53	7·3	51	6·6	52	7·2	52	8·8	53	7·7	58	15·3	59	10·7	62	13·6	64	12·1	59	12·6	60	12·9	69	11·9	57	10·3
	1891	61	15·9	51	9·7	52	7·8	62	9·0	60	11·4	62	13·6	57	10·3	60	20·8	58	14·2	64	18·2	64	12·4	61	16·5	61	16·4	66	14·6	59	13·4
	1892	65	14·5	53	8·0	55	7·3	49	8·9	48	6·1	47	8·6	50	7·8	57	13·0	56	10·5	57	10·1	68	10·5	59	11·3	59	11·1	63	10·3	55	9·5
	Means for 27 years, 1866-92	—	15·4	—	8·8	—	7·6	—	7·6	—	8·0	—	9·2	—	8·2	—	14·2	—	12·3	—	14·4	—	11·7	—	11·8	—	12·9	—	—	—	10·6
MEAN TEMPERATURE (in Degrees Fahrenheit).	Means for 5 years, 1866-70	42°·1		42°·1		42°·5		43°·6		43°·4		44°·2		43°·2		43°·2		43°·8		47°·0		44°·0		45°·2		41°·6		—		43°·9	
	Means for 5 years, 1871-75	42·4		41·8		42·7		42·9		42·8		43·6		42·8		42·7		43·6		46·3		43·3		45·4		44·3		—		43·6	
	Means for 5 years, 1876-80	41·7		41·6		42·3		42·9		42·4		44·2		42·7		42·9		43·7		47·1		43·6		45·6		44·6		—		43·7	
	1881	43·2		43·0		43·2		43·5		43·2		45·2		43·6		44·3		44·5		47·7		44·3		46·8		45·5		49·3		44·6	
	1882	41·3		40·1		43·6		43·5		42·8		45·5		42·9		42·2		44·0		46·5		42·8		44·6		44·0		49·3		43·5	
	1883	42·4		43·0		43·8		44·2		43·8		45·6		44·1		44·3		45·0		46·9		44·6		46·5		45·5		49·5		44·8	
	1884	44·4		42·6		43·8		43·6		43·3		45·3		43·7		43·8		44·4		46·2		44·1		45·1		44·7		49·3		44·2	
	1885	41·5		41·5		42·6		42·3		41·9		44·0		42·5		42·9		42·7		45·0		43·7		45·1		43·9		48·3		43·2	
	Means for 5 years, 1881-85	42·6		42·0		43·4		43·4		43·0		45·1		43·4		43·5		44·1		46·5		43·9		45·6		44·7		49·1		44·1	
	1886	42·6		42·5		43·6		43·9		43·5		45·6		43·8		44·4		44·7		46·3		44·2		45·8		45·1		49·8		44·5	
	1887	39·2		39·4		40·3		40·2		39·9		41·7		40·3		40·7		41·3		42·7		41·8		42·8		41·9		48·5		41·1	
	1888	43·2		43·4		44·1		43 9		43·8		46·1		44·3		45·1		45·3		47·1		45·5		47·0		46·0		50·6		45·2	
	1889	43·1		42·2		43·1		43·0		42·7		44·9		43·2		44·4		44·1		45·8		45·0		43·2		45·1		49·1		44·2	
	1890	42·3		41·5		42·1		40·5		40·4		42·2		41·3		43·3		42·6		44·0		44·3		45·6		44·0		47·5		42·7	
	Means for 5 years, 1886-90	42·1		41·8		42·6		42·3		42·1		44·1		42·6		43·6		43·6		45·2		44·2		45·5		44·4		48·7		43·5	
	1891	42·0		40·8		42·3		43·6		42·5		45·6		43·0		43·4		43·7		45·9		43·3		44·8		44 2		49·4		43·6	
	1892	40·2		39·1		40·9		41·5		40·5		43·5		41·1		41·5		42·1		44·5		42·9		44·6		43·1		48·2		42·1	
	Means for 27 years, 1866-92	42·1		41·7		42·6		43·0		42·6		44·3		42·8		43·1		43·7		46·3		43·7		45·4		44·4		—		43·6	

TABLE Ia.—SHOWING THE DATES OF THE DRIEST AND WETTEST, AND OF THE COLDEST AND WARMEST CORRESPONDING QUARTERS FOR THE TWENTY-SEVEN YEARS, 1866 TO 1892.

		Wheat Districts.	Grazing, &c. Districts.	Generally.
Rainfall	Driest	Ins. 3·4 in 1879	Ins. 5·0 in 1879	Ins. 4·2 in 1879
	Wettest	13·1 in 1872	18·6 in 1872	15·9 in 1872
Temperature	Coldest	40°·3 in 1887	41°·9 in 1887	41°·1 in 1887
	Warmest	45·6 in 1866	47·0 in 1866	46·3 in 1866

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TABLE II.—SHOWING THE RAINFALL, ACCUMULATED TEMPERATURE, AND BRIGHT SUNSHINE FOR EACH MONTH, AND THE PROGRESSIVE VALUES FROM THE COMMENCEMENT OF THE YEAR, FOR THE FOURTH QUARTER, 1892.

YEAR AND MONTHS.	0. Scotland, N.		Principal Wheat-producing Districts.												Principal Grazing, &c. Districts.												Channel Islands.		Means for the British Islands generally.	
			1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.		Means for Wheat-producing Districts.		6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for the &c. Grazing, Districts.					
	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.
RAINFALL.—NUMBERS OF DAYS WITH RAIN.																														
October -	23	211	21	169	24	166	22	153	19	147	18	131	21	154	18	167	22	171	20	155	22	186	15	159	19	166	23	155	20	162
November -	19	230	15	184	16	182	15	168	14	161	16	147	15	169	13	185	15	186	18	173	21	207	22	181	19	185	19	174	17	179
December -	23	253	17	201	15	197	12	180	15	176	13	160	14	183	21	206	19	205	19	192	25	232	22	203	21	206	21	195	18	197
RAINFALL.—AMOUNTS IN INCHES.																														
October -	5·03	40·29	4·67	24·89	4·94	23·21	5·00	23·24	3·02	20·02	3·53	19·22	4·23	22·11	4·75	38·21	5·42	32·11	4·02	25·09	3·27	30·71	2·75	31·28	4·04	31·50	4·61	23·57	4·14	26·84
November -	3·44	43·73	1·87	26·76	1·26	24·47	2·63	25·87	1·82	21·84	3·27	22·49	2·17	24·28	4·20	42·41	2·20	34·31	2·96	28·05	4·21	34·92	5·22	36·50	3·76	35·26	3·26	26·83	2·97	29·81
December -	6·01	49·74	1·45	28·21	1·09	25·56	1·23	27·10	1·23	23·07	1·84	24·33	1·37	25·63	4·09	46·50	2·92	37·23	3·15	31·20	3·00	37·92	3·37	39·87	3·31	38·57	2·41	29·24	2·34	32·15
ACCUMULATED HEAT.—DAY DEGREES ABOVE 42° F.																														
October -	70	1622	83	1904	102	2176	137	2587	125	2540	163	2848	122	2411	94	2067	119	2342	143	2658	122	2270	137	2646	124	2395	221	3159	123	2407
November -	91	1713	75	1979	95	2271	103	2690	108	2648	145	2993	135	2516	100	2167	105	2447	152	2810	119	2389	160	2806	127	2522	245	3404	116	2523
December -	5	1718	6	1985	20	2291	24	2714	28	2676	69	3053	28	2544	36	2203	37	2484	76	2836	53	2442	105	2911	61	2583	142	3546	45	2568
ACCUMULATED HEAT.—DAY DEGREES BELOW 42° F.																														
October -	64	828	69	885	46	730	31	802	61	863	28	582	47	772	59	669	23	602	24	457	36	520	35	445	35	537	0	164	41	657
November -	44	872	89	974	44	774	37	839	63	926	14	596	49	821	39	708	28	630	7	464	27	547	20	465	24	561	0	164	37	694
December -	219	1091	275	1249	230	1004	245	1084	264	1190	163	759	235	1056	188	896	182	812	104	568	125	672	83	548	136	697	39	203	186	880
BRIGHT SUNSHINE.—NUMBERS OF HOURS.																														
October -	56	1064	58	1243	68	1207	80	1437	98	1363	101	1578	81	1365	87	1342	84	1329	117	1582	85	1204	106	1325	96	1355	101	1859	89	1361
November -	32	1096	41	1284	36	1243	33	1470	45	1408	37	1615	38	1403	46	1388	46	1375	63	1645	66	1270	77	1402	60	1415	51	1910	49	1410
December -	14	1110	50	1334	57	1300	61	1531	61	1469	69	1684	60	1463	32	1420	57	1432	67	1712	36	1306	47	1449	48	1463	78	1988	54	1464
BRIGHT SUNSHINE.—PERCENTAGES OF POSSIBLE DURATION.																														
October -	20	27	21	32	23	31	28	37	33	35	35	41	28	35	30	34	29	34	40	41	30	31	37	34	33	35	34	49	31	35
November -	14	26	18	31	15	31	14	36	18	35	15	40	16	35	19	34	19	34	25	41	27	31	30	34	24	35	20	47	20	35
December -	6	26	21	30	26	30	23	35	23	34	25	39	24	34	13	33	22	33	24	40	13	30	18	33	18	34	27	45	21	34

1892.

EXPLANATION OF TABLES.

TABLES I. and IA. are merely in continuation of the Tables given in the Quarterly Summaries of the Weekly Weather Reports, 1884-91. The whole of the values for 1878-92, however, have been corrected by information received since they were first published.

TABLE II. In this Table the monthly values for *October* are those for the fortieth to the forty-third weeks in the year; those for *November* are for the forty-fourth to the forty-seventh weeks; those for *December* are for the forty-eighth to the fifty second weeks.

The figures given in the columns headed "From Jan. 3" are the values for the whole period elapsed since the beginning of the first week of the year.

In the "Means for the Wheat Districts" the values for District 0, and in the "Means for the "Grazing, &c. Districts" the values for the "Channel Islands," are not included.

The Means for the British Islands generally are those for the Wheat Districts and Grazing Districts combined.

SUMMARY OF THE WEEKLY WEATHER REPORT, 1892.

VOL. IX. APPENDIX I.] *New Series.* VALUES FOR THE WHOLE YEAR. [*Price 4d.*

TABLE I.—SUMMARY OF RAINFALL AND MEAN TEMPERATURE, FOR THE WHOLE YEAR DURING THE TWENTY-SEVEN YEARS, 1866 TO 1892.

	YEARS.	Principal Wheat-producing Districts.												Principal Grazing, &c. Districts.												Channel Islands.		Means for the British Islands generally.	
		0. Scotland, N.		1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.		Means for Wheat-producing Districts.		6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for the Grazing, &c. Districts.					
		Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.
RAINFALL (in inches).	Means for 5 years, 1866–70	—	50·4	—	32·9	—	25·0	—	23·8	—	27·3	—	29·2	—	27·6	—	43·5	—	42·9	—	45·4	—	41·7	—	37·4	—	42·2	—	—	—	34·9
	Means for 5 years, 1871–75	—	47·8	—	35·4	—	26·5	—	24·6	—	30·1	—	31·4	—	29·6	—	44·7	—	44·0	—	52·0	—	40·3	—	39·6	—	44·1	—	—	—	36·9
	Means for 5 years, 1876–80	—	38·6	—	32·0	—	29·8	—	29·0	—	32·2	—	32·5	—	31·1	—	44·2	—	41·4	—	44·6	—	39·6	—	41·9	—	42·3	—	—	—	36·7
	1881	222	33·8	199	29·3	197	28·2	193	27·0	177	27·7	171	28·6	187	28·2	206	45·0	190	40·1	195	39·3	234	33·9	209	49·7	206	40·4	208	33·9	197	34·3
	1882	254	37·9	223	32·0	207	30·4	197	30·9	210	36·5	197	31·4	206	32·2	233	51·5	222	43·1	235	50·4	253	41·6	240	45·9	237	46·5	239	39·5	223	39·4
	1883	247	37·9	197	26·3	196	25·9	199	28·9	190	30·8	183	26·5	193	27·7	221	50·6	197	35·4	217	38·5	247	40·0	218	45·3	230	42·0	230	34·5	207	34·9
	1884	235	40·8	191	23·1	162	19·9	163	22·0	166	22·4	165	23·3	169	22·1	215	50·9	188	33·0	203	35·9	235	41·4	207	36·9	209	39·6	215	29·9	189	30·9
	1885	246	35·0	182	21·5	180	23·2	182	27·2	185	27·4	171	27·4	180	25·3	203	42·6	191	31·3	205	39·3	212	33·3	209	39·6	204	37·2	219	31·2	192	31·3
	Means for 5 years, 1881–85	241	37·1	198	23·4	188	25·5	187	27·2	186	29·0	177	27·4	187	27·1	216	48·1	198	36·6	211	40·7	236	38·6	217	41·7	216	41·1	222	33·8	202	34·1
	1886	263	39·1	204	24·9	199	29·2	193	26·2	202	33·1	195	32·9	199	29·3	218	48·1	214	43·0	218	46·5	234	42·8	227	46·3	222	45·3	251	38·6	211	37·3
	1887	241	41·6	183	24·4	174	20·6	166	19·1	148	19·2	150	21·5	164	21·0	181	38·7	163	24·9	159	28·3	188	32·3	159	28·5	170	30·5	184	26·2	167	25·8
	1888	242	43·9	208	30·4	187	25·6	188	24·2	175	26·8	184	28·5	188	27·1	200	46·5	220	31·1	208	38·4	217	36·9	197	39·9	205	38·6	228	31·9	199	32·9
	1889	245	42·0	197	28·0	182	24·1	189	28·3	175	28·8	175	25·6	185	25·8	211	42·4	197	32·4	197	35·9	232	38·5	210	37·6	209	37·4	210	30·2	200	31·6
	1890	264	55·1	222	32·9	193	25·0	184	22·7	182	22·0	180	25·4	192	25·6	224	52·8	210	35·0	218	38·1	246	38·8	229	41·4	225	41·2	216	33·1	209	33·4
	Means for 5 years, 1886–90	251	44·3	203	27·7	187	24·9	184	23·7	176	25·6	177	23·8	185	25·7	207	45·7	197	33·3	200	37·4	223	37·9	204	38·7	206	38·6	217	32·0	196	32·2
	1891	242	52·8	184	30·9	181	24·6	197	26·8	192	30·1	190	33·2	188	29·1	205	49·9	186	38·3	200	45·1	225	35·3	204	41·5	203	42·0	201	36·7	197	35·6
	1892	253	49·8	201	28·2	197	25·6	180	27·2	176	23·1	160	24·4	183	25·7	206	46·5	205	37·2	192	31·1	232	38·0	203	40·1	208	38·6	195	29·2	196	32·2
	Means for 27 years, 1866–92	—	44·2	—	30·8	—	26·2	—	25·8	—	28·6	—	29·4	—	28·2	—	45·5	—	39·5	—	43·6	—	39·4	—	39·9	—	41·6	—	—	—	34·9
MEAN TEMPERATURE (in Degrees Fahrenheit).	Means for 5 years, 1866–70	45°·9		47°·2		47°·1		49°·0		49°·1		49°·5		48°·4		48°·1		48°·8		51°·3		48°·9		50°·0		49°·4		—		48°·9	
	Means for 5 years, 1871–75	46·3		47·1		47·4		48·4		48·8		49·3		48·2		48·1		48·6		50·9		48·4		50·3		49·3		—		48·8	
	Means for 5 years, 1876–80	45·4		46·3		47·1		48·3		48·2		49·3		47·8		47·6		48·1		50·6		47·9		50·1		48·9		—		48·4	
	1881	44·1		45·4		46·2		47·7		47·4		49·1		47·2		46·3		47·3		49·4		47·4		49·0		47·9		51·8		47·6	
	1882	46·2		47·3		48·4		49·1		48·7		50·4		48·8		48·2		49·0		50·3		48·7		49·8		49·2		51·7		49·0	
	1883	45·3		46·9		47·4		48·5		48·2		49·7		48·1		47·6		48·3		49·6		48·0		49·4		48·6		51·5		48·4	
	1884	46·6		47·7		48·7		49·8		49·5		51·0		49·3		48·6		49·3		50·7		48·8		50·2		49·5		52·5		49·4	
	1885	44·4		45·9		46·8		47·5		47·3		49·0		47·3		46·4		46·9		48·7		47·2		48·6		47·6		50·7		47·5	
	Means for 5 years, 1881–85	45·3		46·6		47·5		48·5		48·2		49·8		48·1		47·4		48·2		49·7		48·0		49·4		48·5		51·6		48·3	
	1886	44·3		45·6		46·4		47·5		47·4		49·0		47·2		46·3		47·1		48·8		47·0		48·7		47·6		51·2		47·4	
	1887	45·0		46·2		46·6		47·1		47·0		48·1		47·0		46·8		47·3		48·6		48·0		49·2		48·0		50·9		47·5	
	1888	44·4		45·1		46·1		47·0		46·7		48·2		46·6		46·7		47·1		48·3		47·5		48·9		47·7		50·8		47·2	
	1889	46·1		46·6		47·4		47·9		48·0		49·5		47·9		48·0		48·3		49·4		48·5		49·8		48·8		51·9		48·4	
	1890	46·0		46·6		47·6		47·7		47·5		49·1		47·7		47·7		48·1		49·2		48·4		49·7		48·6		51·3		48·2	
	Means for 5 years, 1886–90	45·2		46·1		46·8		47·4		47·3		48·8		47·3		47·1		47·6		48·9		47·9		49·3		48·2		51·2		47·8	
	1891	45·5		45·7		46·5		47·5		47·2		48·9		47·2		47·3		47·8		48·8		47·8		49·0		48·1		51·3		47·7	
	1892	43·9		44·2		45·7		46·8		46·3		48·4		46·3		45·9		46·8		48·4		47·0		48·5		47·3		51·4		46·8	
	Means for 27 years, 1866–92	45·5		46·5		47·1		48·2		48·2		49·3		47·9		47·5		48·2		50·1		48·2		49·8		48·8		—		48·4	

TABLE Ia.—SHOWING THE DATES OF THE DRIEST AND WETTEST, AND OF THE COLDEST AND WARMEST YEARS FOR THE TWENTY-SEVEN YEARS, 1866 TO 1892.

		Wheat Districts.	Grazing, &c. Districts.	Generally.
Rainfall	Driest	Ins. 21·0 in 1887	Ins. 30·5 in 1887	Ins. 25·8 in 1887
	Wettest	40·2 in 1872	58·0 in 1872	49·1 in 1872
Temperature	Coldest	45°·5 in 1879	46°·9 in 1879	46°·2 in 1879
	Warmest	50·1 in 1868	50·7 in 1868	50·4 in 1868

A 74854. 370.—1/93. Wt. 34. E. & S.

NOTES.

1.—Rainfall.

The mean values for the Rainfall in the districts given as Table I. in the various Quarterly Summaries were obtained as follows. Those for the years 1866 to 1877 were derived from observations made at the following stations:—

Districts.		Stations.
0. SCOTLAND, N.		Loch Broom.
		Helmsdale.
		Sandwick Manse.
1. SCOTLAND, E.		Inverness.
		Aberdeen.
		Ballater.
		Logierait.
		Stirling.
		Hawick.
2. ENGLAND, N.E.		N. Shields.
		York.
		Grimsby.
		Boston.
3. ENGLAND, E.	1866 to 1875.	Fakenham.
		Beccles.
		Witham.
		Bury St. Edmunds.
	1876 &1877.	Yarmouth.
		Cambridge.
		Bury St. Edmunds.
4. MIDLAND COUNTIES		Leicester
		Derby.
		Tenbury.
		Shiffnal.
		Cirencester.
		Banbury.
		Hitchin.
5. ENGLAND, S.		Bridport.
		Selborne.
		Maidstone.
		London (Camden Town).
6. SCOTLAND, W.		Dumfries.
		Ayr.
		Castle Toward.
7. ENGLAND, N.W., and N. WALES		Llandudno.
		Manchester.
		Skipton.
8. ENGLAND, S.W., and S. WALES		Barnstaple.
		Bodmin.
		Haverfordwest.
		Rhayader.
9. IRELAND, N.		Galway.
		Bunninadden, Co. Sligo.
		(Doo Castle.)
		Waringstown.
		Strabane.
10. IRELAND, S.		Cork.
		Waterford.
		Killaloe.
		Portarlington.
		Monkstown, Co. Dublin.

(The values were obtained mainly from Symons' Monthly Meteorological Magazine, supplemented by some of the values contained in the Reports of the Rainfall Committee of the British Association, 1868–1876.)

2.—Temperature.

The Temperature values for the years 1866 to 1877 have been obtained from the following stations:—

Districts.		Stations.
0. SCOTLAND, N.		Sandwick Manse.
		Stornoway.
		Dunrobin.
1. SCOTLAND, E.		Culloden.
		Aberdeen.
		Perth.
		Leith.
2. ENGLAND, N.E.		Bywell.
		N. Shields.
		Hull.
3. ENGLAND, E.		Royston.
		Holkham.
		Norwich.
		Wisbeach.
		Somerleyton.
4. MIDLAND COUNTIES		Derby.
		Nottingham.
		Cardington.
		Oxford.
5. ENGLAND, S.		Marlborough.
		Greenwich.
		Streatley.
		London (Camden Town).
		Weybridge.
		Strathfield Turgiss.
		Osborne.
		Bournemouth.
		Worthing.
6. SCOTLAND, W.		Greenock.
		Cockermouth.
		Silloth.
		Carlisle.
7. ENGLAND, N.W., and N. WALES		Stonyhurst.
		Bradford.
		Leeds.
		Eccles.
		Liverpool.
		Llandudno.
8. ENGLAND, S.W., and S. WALES		Gloucester.
		Taunton.
		Barnstaple.
		Truro.
		Helston.
9. IRELAND, N.	1866 to 1873.	Belfast.
		Milltown (Banbridge).
		Armagh.†
		Athlone.*
	1874 to 1877.	Moville.
		Milltown.
		Armagh.
		Donaghadee.
10. IRELAND, S.	1866 to 1873.	Dublin.*
		Curragh Camp.
		Buttevant.*
		Cork.
		Valencia.†
	1874 to 1877.	Kingstown.
		Parsonstown.
		Cork.
		Roche's Point.
		Valencia.

(The values were obtained mainly from the returns published quarterly by the Registrar General, by the Scottish Meteorological Society (in their Quarterly Journal), and the reports of the Army Medical Department, besides the records of the two Irish observatories, Valencia and Armagh. The returns for Cork were furnished by R. Caulfield, Esq., LL.D.)

For the years 1878 to 1892 the means are obtained from the observations published in the Weekly Weather Report.

* Did not commence till January 1867.

† Did not commence till January 1869.

By Order,

ROBERT H. SCOTT, Secretary.

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WEEKLY WEATHER REPORT, 1892.

VOL. IX. APPENDIX II.] *Third Series.* [*Price* 1*s.*

TABLE I.—SHOWING THE WEEKLY AND PROGRESSIVE NUMBERS OF RAINY DAYS IN EACH DISTRICT, DURING THE YEAR 1892.

DATE. — LIMITS OF WEEKS.	Principal Wheat-producing Districts.														Principal Grazing, &c. Districts.																	
	0. SCOTLAND, N.		1. SCOTLAND, E.		2. ENGLAND, N.E.		3. ENGLAND, E.		4. MIDLAND COUNTIES.		5. ENGLAND, S.		MEANS FOR WHEAT PRODUCING DISTRICTS.		6. SCOTLAND, W.		7. ENGLAND, N.W.		8. ENGLAND, S.W.		9. IRELAND, N.		10. IRELAND, S.		MEANS FOR GRAZING, &C. DISTRICTS.		CHANNEL ISLANDS.		MEANS FOR THE BRITISH ISLANDS GENERALLY.	
	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.
	NUMBERS OF DAYS WITH RAIN.																													
1892.																														
Jan. 3-9	7	7	4	4	4	4	4	4	5	5	4	4	4	4	5	5	6	6	5	5	6	6	4	4	5	5	7	7	5	5
10-16	4	11	2	6	3	7	4	8	3	8	2	6	3	7	3	8	4	10	3	8	4	10	4	8	5	9	4	11	3	8
17-23	5	16	5	11	4	11	3	11	5	13	4	10	4	11	6	14	5	15	5	13	4	14	5	13	4	14	7	18	5	13
24-30	7	23	4	15	2	13	4	15	3	16	3	13	3	14	7	21	4	19	4	17	6	20	4	17	5	19	4	22	4	17
Jan. 31-Feb. 6	7	30	5	20	3	16	3	18	4	20	5	18	4	18	6	27	5	24	7	24	7	27	6	23	6	25	7	29	5	22
Feb. 7-13	6	36	3	23	4	20	4	22	3	23	2	20	3	21	4	31	3	27	3	27	4	31	3	26	3	28	2	31	3	25
14-20	6	42	6	29	6	26	6	28	5	28	5	25	6	27	4	35	4	31	6	33	4	35	5	31	5	33	7	38	6	31
21-27	3	45	4	33	5	31	3	31	4	32	3	28	4	31	3	38	3	34	5	38	3	38	5	36	4	37	3	41	4	35
Feb. 28-Mar. 5	1	46	2	35	5	36	5	36	3	35	2	30	3	34	0	38	1	35	0	38	0	38	0	36	0	37	1	42	2	37
Mar. 6-12	5	51	5	40	5	41	4	40	3	38	2	32	4	38	2	40	3	38	3	41	4	42	3	39	3	40	2	44	3	40
13-19	4	55	3	43	2	43	3	43	3	41	2	34	3	41	3	43	4	42	4	45	4	46	4	43	4	44	4	48	4	44
20-26	5	60	2	45	2	45	4	47	2	43	3	37	3	44	3	46	2	44	1	46	2	48	1	44	2	46	3	51	2	49
Mar. 27-April 2	3	63	1	46	2	47	2	49	1	44	1	38	1	45	1	47	2	46	1	47	1	49	1	45	1	47	1	52	1	47
April 3-9	2	65	1	47	1	48	0	49	0	44	0	38	0	45	2	49	2	48	0	47	1	50	2	47	1	48	2	54	0	47
10-16	3	68	3	50	5	53	5	54	3	47	2	40	4	49	2	51	3	51	3	50	3	53	2	49	3	51	4	58	4	51
17-23	6	74	3	53	4	57	3	57	3	50	2	42	3	52	5	56	5	56	5	55	6	59	4	53	5	56	4	62	4	55
April 24-30	6	80	4	57	4	61	5	62	3	53	5	47	4	56	4	60	4	60	4	59	5	64	5	58	4	60	4	66	4	59
May 1-7	3	83	1	58	2	63	3	65	2	55	2	49	2	58	1	61	1	61	2	61	1	65	3	61	2	62	1	67	2	61
8-14	4	87	3	61	2	65	1	66	1	56	1	50	2	60	3	64	3	64	1	62	3	68	3	64	2	64	1	68	2	63
15-21	7	94	7	68	6	71	5	71	5	61	2	52	5	65	7	71	6	70	4	66	6	74	4	68	5	69	2	70	5	63
22-28	7	101	6	74	6	77	2	73	4	65	3	55	4	69	6	77	6	76	5	71	6	80	6	74	6	75	5	75	5	73
May 29-June 4	6	107	6	80	5	82	4	77	5	70	4	59	5	74	6	83	5	81	4	75	7	87	6	80	6	81	5	80	6	79
June 5-11	2	109	3	83	3	85	2	79	2	72	1	60	2	76	2	85	2	83	1	76	2	89	1	81	1	82	1	81	2	81
12-18	6	115	6	89	5	90	4	83	3	75	3	63	5	81	3	88	4	87	2	78	4	93	2	83	3	85	1	82	4	85
19-25	3	118	5	94	5	95	6	89	5	80	5	68	5	86	4	92	4	91	4	82	5	98	4	87	4	89	5	87	4	89
June 26-July 2	4	122	3	97	3	98	2	91	2	82	1	69	2	88	4	96	5	96	2	84	4	102	4	91	4	93	2	89	3	92
July 3-9	7	129	6	103	5	103	4	95	5	87	3	72	4	92	6	102	6	102	5	89	7	109	6	97	6	99	5	94	5	97
10-16	3	132	2	105	2	105	4	99	4	91	4	76	3	95	0	102	2	104	5	94	1	110	4	101	2	101	4	98	3	100
17-23	4	136	3	108	2	107	4	103	2	93	3	79	3	98	2	104	2	106	3	97	3	113	1	102	2	103	0	98	2	102
24-30	1	137	1	109	2	109	0	103	0	93	1	80	1	99	0	104	1	107	0	97	1	114	0	102	1	104	0	98	1	103
July 31-Aug. 6	6	143	4	113	3	112	2	105	4	97	3	83	3	102	4	108	4	111	2	99	5	119	4	106	4	108	0	98	4	107
Aug. 7-13	5	148	5	118	5	117	3	108	3	100	3	86	4	106	5	113	5	116	3	102	4	123	4	110	4	112	3	101	4	111
14-20	5	153	5	123	3	120	3	111	3	103	4	90	4	110	6	119	3	119	4	106	5	128	5	115	5	117	5	106	4	115
21-27	6	159	3	126	3	123	3	114	3	106	4	94	3	113	4	123	3	122	4	110	6	134	5	120	4	121	5	111	4	119
Aug. 28-Sept. 3	7	166	6	132	5	128	6	120	7	113	6	100	6	119	6	129	7	129	7	117	7	141	6	126	6	127	6	117	6	125
Sept. 4-10	5	171	2	134	3	131	2	122	3	116	2	102	2	121	4	133	5	134	4	121	6	147	5	131	5	132	4	121	4	129
11-17	7	178	4	138	2	133	0	122	2	118	2	104	2	123	6	139	5	139	4	125	6	153	4	135	5	137	2	123	3	132
18-24	3	181	4	142	5	138	5	127	5	123	4	108	5	128	4	143	4	143	4	129	4	157	4	139	4	141	4	127	4	136
Sept. 25-Oct. 1	7	188	6	148	4	142	4	131	5	128	5	113	5	133	6	149	6	149	6	135	7	164	5	144	6	147	5	132	6	142
Oct. 2-8	7	195	7	155	6	148	6	137	5	133	6	119	6	139	7	156	7	156	6	141	7	171	6	150	6	153	7	139	6	148
9-15	5	200	5	160	6	154	6	143	5	138	4	123	5	144	3	159	6	162	5	146	5	176	3	153	4	157	4	143	5	153
16-22	6	206	4	164	6	160	5	148	5	143	3	126	5	149	3	162	4	166	4	150	5	181	2	155	4	161	5	148	4	157
23-29	5	211	5	169	6	166	5	153	4	147	5	131	5	154	5	167	5	171	5	155	5	186	4	159	5	166	7	155	5	162
Oct. 30-Nov. 5	6	217	4	173	3	169	6	159	4	151	5	136	4	158	5	172	3	174	5	160	5	191	5	164	5	171	5	160	4	166
Nov. 6-12	5	222	4	177	4	173	3	162	2	153	3	139	3	161	5	177	4	178	3	163	5	196	6	170	5	176	4	164	4	170
13-19	5	227	3	180	5	178	4	166	5	158	5	144	5	166	6	183	5	183	6	169	6	202	5	175	5	181	5	169	5	175
20-26	3	230	4	184	4	182	2	168	3	161	3	147	3	169	2	185	3	186	4	173	5	207	6	181	4	185	5	174	4	179
Nov. 27-Dec. 3	6	236	5	189	4	186	4	172	5	165	5	152	5	174	5	190	6	192	7	180	6	213	6	187	6	191	7	181	6	185
Dec. 4-10	6	242	4	193	5	191	4	176	5	171	4	156	4	178	6	196	5	197	5	185	7	220	4	191	5	196	6	187	5	190
11-17	6	248	4	197	3	194	3	179	5	176	4	160	4	182	6	202	6	203	6	191	7	227	6	197	6	202	5	192	5	195
18-24	4	252	3	200	2	196	0	179	0	176	0	160	1	183	3	205	2	205	1	192	4	231	4	201	3	205	2	194	2	197
Dec. 25-31	1	253	1	201	1	197	1	180	0	176	0	160	0	183	1	206	0	205	0	193	1	232	2	203	1	206	1	195	0	197

A 74855. 370.—1/93. Wt. 34. E. & S.

TABLE II.—SHOWING THE WEEKLY AND PROGRESSIVE AMOUNTS OF RAINFALL IN EACH DISTRICT, DURING THE YEAR 1892.

DATE. — LIMITS OF WEEKS.	Principal Wheat-producing Districts.														Principal Grazing, &c. Districts.												Means for the Channel Islands.		Means for the British Islands generally.	
	0. Scotland, N.		1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.		Means for Wheat-producing Districts.		6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Grazing, &c. Districts.					
	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.
	Rainfall in Inches.																													
1892.																														
Jan. 3-9	1·50	1·50	0·63	0·63	0·58	0·58	0·32	0·32	0·38	0·38	0·16	0·16	0·41	0·41	0·75	0·75	0·85	0·85	0·48	0·48	0·99	0·99	0·38	0·38	0·69	0·69	0·66	0·66	0·55	0·55
10-16	0·71	2·21	0·19	0·82	0·31	0·89	0·27	0·59	0·38	0·76	0·17	0·33	0·26	0·67	0·41	1·16	0·28	1·13	0·60	1·08	0·40	1·39	0·90	1·28	0·52	1·21	0·46	1·12	0·39	0·94
17-23	0·75	2·96	1·10	1·92	0·29	1·18	0·13	0·72	0·48	1·24	0·43	0·76	0·49	1·16	1·27	2·43	0·97	2·10	0·64	1·72	0·47	1·86	0·82	2·10	0·83	2·04	0·57	1·69	0·66	1·60
24-30	3·08	6·04	0·31	2·23	0·14	1·32	0·20	0·92	0·15	1·39	0·14	0·90	0·19	1·35	2·10	4·53	0·89	2·99	0·45	2·17	0·83	2·69	0·48	2·58	0·95	2·99	0·13	1·82	0·57	2·17
Jan. 31-Feb. 6	1·68	7·72	0·42	2·65	0·13	1·45	0·12	1·04	0·22	1·61	0·38	1·28	0·26	1·61	1·58	6·11	0·83	3·82	0·93	3·10	1·03	3·72	1·06	3·64	1·69	4·08	0·95	2·77	0·68	2·85
Feb. 7-13	0·63	8·35	0·23	2·88	0·22	1·67	0·34	1·38	0·21	1·82	0·21	1·49	0·24	1·85	0·50	6·61	0·41	4·23	0·29	3·39	0·47	4·19	0·18	3·82	0·37	4·45	0·05	2·82	0·31	3·16
14-20	0·57	8·92	0·76	3·64	1·01	2·68	0·79	2·17	0·95	2·77	0·60	2·09	0·82	2·67	0·35	6·96	0·68	4·91	1·14	4·53	0·60	4·79	1·28	5·10	0·81	5·26	2·08	4·90	0·81	3·97
21-27	0·36	9·28	0·62	4·26	0·41	3·09	0·33	2·50	0·37	3·14	0·32	2·41	0·41	3·08	0·11	7·07	0·22	5·13	0·67	5·20	0·15	4·94	1·20	6·30	0·47	5·73	0·69	5·59	0·44	4·41
Feb. 28-Mar. 5	0·02	9·30	0·11	4·37	0·23	3·32	0·32	2·82	0·08	3·22	0·17	2·58	0·18	3·26	0·00	7·07	0·01	5·14	0·00	5·20	0·00	4·94	0·00	6·30	0·00	5·73	0·09	5·68	0·09	4·50
Mar. 6-12	0·56	9·86	0·47	4·84	0·53	3·85	0·27	3·09	0·19	3·41	0·16	2·74	0·32	3·58	0·20	7·27	0·34	5·48	0·33	5·53	0·35	5·29	0·23	6·53	0·29	6·02	0·27	5·95	0·30	4·80
13-19	0·61	10·47	0·36	5·20	0·21	4·06	0·23	3·32	0·36	3·77	0·48	3·22	0·33	3·91	0·49	7·76	0·57	6·05	0·84	6·37	0·40	5·69	0·91	7·44	0·64	6·66	0·73	6·68	0·49	5·29
20-26	0·52	10·99	0·25	5·45	0·24	4·30	0·54	3·86	0·07	3·84	0·31	3·53	0·28	4·19	0·22	7·98	0·14	6·19	0·02	6·39	0·15	5·84	0·09	7·53	0·13	6·79	0·16	6·84	0·21	5·50
Mar. 27-April 2	0·19	11·18	0·03	5·48	0·08	4·38	0·13	3·99	0·15	3·99	0·13	3·66	0·11	4·30	0·04	8·02	0·10	6·29	0·03	6·42	0·05	5·89	0·02	7·55	0·05	6·84	0·08	6·92	0·08	5·58
April 3-9	0·11	11·29	0·01	5·49	0·05	4·43	0·00	3·99	0·00	3·99	0·00	3·66	0·01	4·31	0·06	8·08	0·10	6·39	0·01	6·43	0·05	5·94	0·19	7·74	0·08	6·92	0·14	7·06	0·05	5·63
10-16	0·22	11·51	0·22	5·71	0·34	4·77	0·76	4·75	0·34	4·33	0·33	3·99	0·40	4·71	0·14	8·22	0·32	6·71	0·28	6·71	0·17	6·11	0·14	7·88	0·21	7·13	0·69	7·75	0·31	5·94
17-23	0·81	12·32	0·13	5·84	0·13	4·90	0·24	4·99	0·20	4·53	0·29	4·28	0·20	4·91	0·48	8·70	0·45	7·16	0·66	7·37	0·40	6·51	0·23	8·11	0·45	7·58	0·45	8·20	0·32	6·26
24-30	0·86	13·18	0·59	6·43	0·74	5·64	0·60	5·59	0·33	4·86	0·35	4·63	0·52	5·43	0·58	9·28	0·58	7·74	0·70	8·07	0·54	7·05	0·60	8·71	0·60	8·18	0·48	8·68	0·56	6·82
May 1-7	0·10	13·28	0·04	6·47	0·26	5·90	0·59	6·18	0·52	5·38	0·07	4·70	0·30	5·73	0·08	9·36	0·24	7·98	0·06	8·13	0·06	7·11	0·42	9·13	0·17	8·35	0·09	8·77	0·24	7·05
8-14	0·68	13·96	0·24	6·71	0·41	6·31	0·06	6·24	0·19	5·48	0·02	4·72	0·16	5·89	0·91	10·27	0·55	8·53	0·08	8·21	0·77	7·88	0·68	9·81	0·59	8·94	0·01	8·78	0·37	7·43
15-21	1·44	15·40	0·80	7·51	0·39	6·70	0·29	6·53	0·31	5·79	0·06	4·78	0·37	6·26	1·49	11·76	1·06	9·59	0·29	8·50	1·14	9·02	0·30	10·11	0·86	9·80	0·04	8·82	0·62	8·05
22-28	1·11	16·51	1·30	8·81	1·28	7·98	0·49	7·02	0·85	6·64	0·48	5·26	0·88	7·14	2·12	13·88	1·23	10·82	0·94	9·44	1·89	10·91	1·81	11·92	1·60	11·40	1·34	10·16	1·24	9·29
May 29-June 4	1·46	17·97	0·98	9·79	0·59	8·57	0·38	7·40	0·79	7·43	0·54	5·80	0·66	7·80	1·40	15·28	0·91	11·73	0·89	10·33	1·81	12·72	1·80	13·72	1·36	12·76	0·67	10·83	1·01	10·30
June 5-11	0·23	18·20	0·37	10·16	0·70	9·27	0·27	7·67	0·32	7·75	0·11	5·91	0·36	8·16	0·65	15·93	0·45	12·18	0·03	10·36	1·06	13·78	0·09	13·81	0·46	13·22	0·02	10·85	0·41	10·71
12-18	0·65	18·85	0·64	10·80	0·47	9·74	0·19	7·86	0·10	7·85	0·17	6·08	0·31	8·47	0·25	16·18	0·32	12·50	0·10	10·46	0·17	13·95	0·08	13·89	0·19	13·41	0·07	10·92	0·25	10·96
19-25	0·41	19·26	0·82	11·62	1·02	10·76	1·24	9·10	0·83	8·68	1·01	7·09	0·98	9·45	0·91	17·09	0·83	13·33	0·31	10·77	0·53	14·48	0·64	14·53	0·64	14·05	0·69	11·61	0·81	11·77
June 26-July 2	0·97	20·23	0·29	11·91	0·95	11·71	0·95	10·05	0·84	9·52	0·23	7·32	0·65	10·10	0·92	18·01	1·26	14·59	0·27	11·04	1·01	15·49	0·99	15·52	0·89	14·94	0·11	11·72	0·77	12·54
July 3-9	1·75	21·98	1·00	12·91	0·62	12·33	0·62	10·67	0·56	10·08	0·46	7·78	0·65	10·75	1·96	19·97	0·89	15·48	0·84	11·88	1·45	16·94	1·32	16·84	1·29	16·23	0·31	12·03	0·97	13·51
10-16	0·06	22·04	0·06	12·97	0·14	12·47	1·04	11·71	1·31	11·39	0·86	8·64	0·68	11·43	0·00	19·97	0·56	16·04	1·42	13·30	0·15	17·09	1·23	18·07	0·67	16·90	0·86	12·89	0·68	14·19
17-23	0·77	22·81	0·72	13·69	0·61	13·08	0·88	12·59	0·57	11·96	0·65	9·29	0·69	12·12	0·71	20·68	0·66	16·70	0·16	13·46	0·30	17·39	0·04	18·11	0·38	17·28	0·00	12·89	0·54	14·73
24-30	0·10	22·91	0·03	13·72	0·04	13·12	0·00	12·59	0·00	11·96	0·15	9·44	0·04	12·16	0·04	20·72	0·02	16·72	0·02	13·48	0·04	17·43	0·02	18·13	0·03	17·31	0·00	12·89	0·03	14·76
July 31-Aug. 6	1·29	24·20	0·32	14·04	0·15	13·27	0·17	12·76	0·25	12·21	0·14	9·58	0·21	12·37	0·42	21·14	0·21	16·93	0·21	13·69	0·39	17·82	0·62	18·75	0·37	17·68	0·00	12·89	0·29	15·05
Aug. 7-13	1·12	25·32	0·87	14·91	1·32	14·59	0·17	12·93	0·43	12·64	0·41	9·99	0·64	13·01	1·95	23·09	1·90	18·83	0·72	14·41	1·47	19·29	1·63	20·41	1·54	19·22	0·32	13·21	1·09	16·14
14-20	1·15	26·47	1·06	15·97	0·37	14·96	1·41	14·34	0·19	12·83	0·89	10·88	0·78	13·79	1·79	24·88	0·42	19·25	0·26	14·67	1·25	20·54	1·93	22·34	1·18	20·35	0·76	13·97	0·95	17·09
21-27	1·26	27·73	0·28	16·25	0·30	15·26	0·97	15·31	0·86	13·69	1·42	12·30	0·77	14·56	0·72	25·60	1·08	20·33	1·14	15 81	1·60	22·14	1·54	23·88	1·22	21·57	1·29	15·26	1·00	18·09
Aug. 28-Sept. 3	1·21	28·94	1·93	18·18	1·36	16·62	0·76	16·07	1·06	14·75	1·01	13·31	1·22	15·78	2·94	28·54	2·42	22·75	1·80	17·61	1·59	23·73	1·45	25·33	2·04	23·61	1·59	16·85	1·63	19·72
Sept. 4-10	0·51	29·45	0·18	18·36	0·27	16·89	0·13	16·20	0·08	14·83	0·06	13·37	0·15	15·93	0·39	28·93	0·69	23·44	0·28	17·89	0·59	24·32	0·85	26·18	0·56	24·17	0·21	17·06	0·36	20·08
11-17	2·50	31·95	0·48	18·84	0·16	17·05	0·00	16·20	0·09	14·92	0·03	13·40	0·15	16·08	1·44	30·37	0·70	24·14	0·17	18·06	1·05	25·37	0·42	26·60	0·76	24·93	0·09	17·15	0·45	20·53
18-24	1·29	33·24	0·44	19·28	0·50	17·55	1·06	17·26	1·12	16·04	0·67	14·07	0·76	16·84	0·99	31·36	0·92	25·06	0·76	18·82	0·57	25·94	0·99	27·59	0·84	25·77	0·22	17·37	0·80	21·33
Sept. 25-Oct. 1	2·02	35·26	0·94	20·22	0·72	18·27	0·98	18·24	0·96	17·00	1·62	15·69	1·04	17·88	2·10	33·46	1·63	26·69	2·25	21·07	1·50	27·44	0·94	28·53	1·69	27·46	1·59	18·96	1·37	22·70
Oct. 2-8	2·46	37·72	2·06	22·28	1·01	19·28	1·96	20·20	0·80	17·80	1·41	17·10	1·45	19·33	1·59	35·05	2·27	28·96	1·41	22·48	1·29	28·73	0·68	29·21	1·45	28·91	1·07	20·03	1·45	24·15
9-15	0·61	38·33	0·64	22·92	1·94	21·22	1·29	21·49	1·13	18·93	0·51	17·61	1·10	20·43	0·48	35·53	1·52	30·48	0·80	23·28	0·50	29·23	0·53	29·74	0·77	29·68	1·03	21·06	0·93	25·08
16-22	0·64	38·97	0·54	23·46	1·25	22·47	0·72	22·21	0·31	19·24	0·18	17·79	0·60	21·03	0·31	35·84	0·69	31·17	0·52	23·80	0·47	29·70	0·18	29·92	0·43	30·11	0·51	21·57	0·52	25·60
23-29	1·32	40·29	1·43	24·89	0·74	23·21	1·03	23·24	0·78	20·02	1·43	19·22	1·08	22·11	2·37	38·21	0·94	32·11	1·29	25·09	1·01	30·71	1·36	31·28	1·39	31·50	2·00	23·57	1·24	26·84
Oct. 30-Nov. 5	1·04	41·33	0·43	25·32	0·38	23·59	1·48	24·72	0·77	20·79	1·52	20·74	0·91	23·02	1·08	39·29	0·64	32·75	1·17	26·26	0·89	31·60	1·00	32·28	0·96	32·46	1·34	24·91	0·94	27·78
Nov. 6-12	1·06	42·39	0·32	25·64	0·38	23·97	0·11	24·83	0·08	20·87	0·15	20·89	0·21	23·23	1·24	40·53	0·54	33·29	0·25	26·51	1·22	32·82	0·96	33·24	0·84	33·30	0·37	25·28	0·52	28·30
13-19	0·92	43·31	0·86	26·50	0·35	24·32	0·71	25·54	0·65	21·52	1·23	22·12	0·76	23·99	1·25	41·78	0·58	33·87	0·96	27·47	1·29	34·11	1·31	34·55	1·08	34·38	1·18	26·46	0·92	29·22
20-26	0·42	43·73	0·26	26·76	0·15	24·47	0·33	25·87	0·32	21·84	0·37	22·49	0·29	24·28	0·63	42·41	0·44	34·31	0·58	28·05	0·81	34·92	1·25	36·50	0·88	35·26	0·37	26·83	0·59	29·81
Nov. 27-Dec. 3	2·81	46·54	0·43	27·19	0·24	24·71	0·39	26·26	0·48	22·32	0·98	23·47	0·50	24·78	1·53	43·94	0·98	35·29	1·37	29·42	0·84	35·76	1·35	37·85	1·22	36·48	0·96	27·79	0·86	30·67
Dec. 4-10	1·28	47·82	0·35	27·74	0·58	25·29	0·59	26·85	0·59	22·91	0·56	24·03	0·58	25·36	1·31	45·25	1·14	36·43	0·82	30·24	1·11	36·87	0·61	38·46	1·00	37·48	0·68	28·47	0·79	31·46
11-17	1·67	49·49	0·25	27·99	0·09	25·38	0·22	27·07	0·16	23·07	0·29	24·32	0·20	25·56	1·08	46·33	0·69	37·12	0·84	31·08	0·79	37·66	0·57	39·03	0·79	38·27	0·39	28·86	0·50	31·96
18-24	0·20	49·69	0·20	28·19	0·13	25·51	0·00	27·07	0·00	23·07	0·00	24·32	0·07	25·63	0·15	46·48	0·11	37·23	0·12	31·20	0·20	37·86	0·61	39·64	0·24	38·51	0·32	29·18	0·15	32·11
Dec. 25-31	0·05	49·74	0·02	28·21	0·05	25·56	0·03	27·10	0·00	23·07	0·01	24·33	0·02	25·65	0·02	46·50	0·00	37·23	0·00	31·20	0·05	37·92	0·23	39·87	0·06	38·57	0·06	29·24	0·04	32·15

TABLE III.—SHOWING THE WEEKLY AND PROGRESSIVE VALUES OF ACCUMULATED HEAT ABOVE 42° F. IN EACH DISTRICT, DURING THE YEAR 1892.

DATE. — LIMITS OF WEEKS.	0. Scotland, N.		Principal Wheat-producing Districts.												Principal Grazing, &c. Districts.												Channel Islands.		Means for the British Islands generally.	
			1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.		Means for Wheat-producing Districts.		6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Grazing, &c. Districts.					
	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.
	Day-Degrees above 42° Fahrenheit.																													
1892.																														
Jan. 3-9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	10	0	0
10-16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	11	0	0
17-23	0	0	0	0	0	0	0	0	0	4	4	1	1	0	0	0	0	10	10	0	0	11	11	4	4	25	36	3	3	
24-30	23	23	28	28	26	26	16	16	29	29	25	29	25	26	28	28	20	20	25	35	26	26	33	44	27	31	29	65	26	29
Jan. 31-Feb. 6	0	23	0	28	3	29	9	25	11	40	20	49	8	34	7	35	6	26	21	56	10	36	26	70	14	45	28	93	11	40
Feb. 7-13	20	43	29	57	27	56	25	50	26	66	22	71	26	60	25	60	17	43	25	81	27	63	32	102	25	70	34	127	26	66
14-20	0	43	0	57	0	56	0	50	0	66	0	71	0	60	0	60	0	43	0	81	0	63	0	102	0	70	6	133	0	66
21-27	3	46	0	57	0	56	5	55	6	72	13	84	5	65	6	66	10	53	22	103	13	76	24	126	15	85	29	162	10	76
Feb. 28-Mar. 5	0	46	0	57	0	56	0	55	0	72	0	84	0	65	0	66	0	53	0	103	0	76	0	126	0	85	0	162	0	76
Mar. 6-12	0	46	0	57	0	56	0	55	0	72	0	84	0	65	0	66	0	53	0	103	0	76	0	126	0	85	0	162	0	76
13-19	10	56	12	69	10	66	16	71	23	95	13	102	16	81	13	79	17	70	27	130	29	105	32	158	24	109	32	194	20	96
20-26	14	70	21	90	18	84	14	85	22	117	19	121	19	100	16	95	17	87	29	159	23	128	27	185	22	131	27	221	21	117
Mar. 27-April 2	15	85	27	117	26	110	25	110	34	151	35	156	29	129	20	115	19	106	42	201	31	159	32	217	29	160	26	247	29	146
April 3-9	49	134	47	164	43	153	72	182	82	233	69	225	62	191	53	168	57	163	73	274	61	220	69	286	63	223	73	320	63	209
10-16	11	145	9	173	7	160	18	200	23	256	34	259	18	209	20	188	20	183	35	309	24	244	41	327	28	251	35	353	23	232
17-23	20	165	39	212	36	196	45	245	48	304	42	301	42	251	33	221	34	217	36	345	36	280	44	371	36	287	32	385	39	271
24-30	12	177	21	233	29	225	38	283	40	344	40	341	34	285	33	254	27	244	36	381	32	312	38	409	33	320	39	424	33	304
May 1-7	31	208	42	275	31	256	33	316	40	384	35	376	36	321	46	300	35	279	35	416	41	353	45	454	40	360	38	462	38	342
8-14	51	259	53	328	46	302	65	381	74	458	75	451	63	384	64	364	69	348	78	494	68	421	71	525	70	430	81	543	67	409
15-21	31	290	42	370	52	354	64	445	63	521	72	523	58	442	50	414	54	402	64	558	55	476	76	601	60	490	77	620	59	468
22-28	48	338	63	435	97	451	128	573	125	646	123	646	108	550	71	485	97	499	97	655	78	554	94	695	83	578	106	726	98	566
May 29-June 4	63	401	78	513	106	557	116	689	106	752	109	755	103	653	74	559	102	601	88	743	76	630	87	782	85	663	110	836	94	660
June 5-11	88	489	97	610	101	658	113	802	123	875	118	873	110	763	106	665	118	719	118	861	114	744	124	906	116	779	110	946	113	773
12-18	35	524	45	655	44	702	49	851	55	930	63	938	52	815	49	714	53	772	62	923	55	799	63	969	57	835	86	1032	54	827
19-25	57	581	61	716	69	771	91	942	88	1018	93	1031	80	895	76	790	82	854	88	1011	82	881	90	1059	83	918	108	1140	82	909
June 26-July 2	72	653	92	808	116	887	130	1072	121	1139	130	1161	118	1013	90	880	110	964	116	1127	104	985	113	1172	107	1025	136	1276	113	1032
July 3-9	72	725	88	896	109	996	132	1204	114	1253	127	1288	114	1127	88	968	107	1071	111	1238	90	1075	106	1278	100	1124	132	1408	107	1129
10-16	66	791	71	967	74	1070	109	1304	92	1345	116	1404	90	1217	88	1056	93	1164	110	1348	97	1172	104	1382	98	1222	132	1540	94	1223
17-23	71	862	81	1048	80	1150	89	1393	86	1431	102	1506	88	1305	89	1145	90	1254	99	1447	92	1264	103	1485	95	1317	115	1655	91	1314
24-30	96	958	102	1150	94	1244	109	1502	104	1535	127	1633	107	1412	106	1251	106	1360	123	1570	106	1370	117	1602	112	1429	125	1780	110	1424
July 31-Aug. 6	79	1037	98	1248	101	1345	107	1609	108	1643	132	1765	109	1521	104	1355	108	1468	125	1695	109	1479	131	1733	115	1544	137	1917	112	1536
Aug. 7-13	81	1118	87	1335	98	1443	114	1723	106	1749	123	1888	106	1627	86	1441	98	1566	112	1807	97	1576	116	1849	102	1646	141	2058	104	1640
14-20	84	1202	97	1432	115	1558	141	1864	128	1877	146	2034	126	1753	97	1538	116	1682	127	1934	104	1680	116	1965	112	1758	152	2210	119	1759
21-27	102	1304	112	1544	130	1688	137	1997	130	2007	137	2171	128	1881	120	1658	133	1815	131	2065	114	1794	124	2089	124	1882	141	2354	126	1885
Aug. 28-Sept. 3	52	1356	58	1602	92	1780	110	2107	100	2107	123	2294	97	1978	70	1728	95	1910	103	2168	78	1872	96	2185	88	1970	134	2488	93	1978
Sept. 4-10	61	1417	64	1666	74	1854	73	2180	75	2182	83	2377	74	2052	72	1800	81	1991	85	2253	81	1953	95	2280	83	2053	104	2592	79	2057
11-17	57	1474	67	1733	85	1939	102	2282	89	2271	111	2488	91	2143	71	1871	89	2080	95	2348	76	2029	87	2367	84	2137	120	2712	87	2144
18-24	45	1519	48	1781	76	2015	97	2379	83	2354	112	2600	83	2226	56	1927	79	2159	95	2443	67	2096	82	2449	76	2213	122	2834	79	2223
Sept. 25-Oct. 1	33	1552	40	1821	59	2074	71	2450	61	2415	85	2685	63	2289	46	1973	64	2223	69	2512	52	2148	69	2509	58	2271	104	2938	61	2284
Oct. 2-8	32	1584	32	1853	39	2113	39	2489	40	2455	53	2738	41	2330	30	2003	37	2260	43	2555	37	2185	40	2549	37	2308	74	3012	39	2323
9-15	22	1606	25	1878	33	2146	40	2529	36	2491	44	2782	36	2366	33	2036	35	2295	39	2594	30	2215	35	2584	35	2343	62	3074	35	2358
16-22	6	1612	11	1889	11	2157	24	2553	16	2507	30	2812	18	2384	15	2051	19	2314	30	2624	24	2239	29	2613	24	2367	39	3113	21	2379
23-29	10	1622	15	1904	19	2176	34	2587	33	2540	36	2848	27	2411	16	2067	28	2342	34	2658	31	2270	33	2646	28	2335	46	3159	28	2407
Oct. 30-Nov. 5	26	1648	31	1935	32	2208	37	2624	40	2580	41	2889	36	2447	31	2098	35	2377	40	2698	36	2306	43	2689	37	2432	67	3226	37	2444
Nov. 6-12	32	1680	30	1965	27	2235	25	2649	36	2616	34	2923	30	2477	32	2130	28	2405	39	2737	32	2338	39	2728	34	2466	57	3283	32	2476
13-19	24	1704	10	1975	23	2258	33	2682	25	2641	47	2970	28	2505	28	2158	25	2431	39	2776	28	2366	36	2764	31	2497	64	3347	29	2505
20-26	9	1713	4	1979	13	2271	8	2690	7	2648	23	2993	11	2516	9	2167	16	2447	34	2810	23	2389	42	2806	25	2522	57	3404	18	2523
Nov. 27-Dec. 3	0	1713	0	1979	6	2277	10	2700	12	2660	30	3023	12	2528	9	2176	10	2457	31	2841	10	2399	29	2835	18	2540	48	3452	15	2538
Dec. 4-10	0	1713	0	1979	0	2277	0	2700	0	2660	0	3023	0	2528	0	2176	0	2457	2	2845	0	2399	2	2837	1	2541	20	3472	1	2539
11-17	5	1718	6	1985	9	2286	12	2712	15	2675	26	3049	14	2542	21	2197	23	2480	23	2873	25	2424	32	2869	23	2567	44	3516	20	2559
18-24	0	1718	0	1985	5	2291	2	2714	1	2676	4	3053	2	2544	6	2203	4	2484	13	2886	18	2442	39	2908	16	2583	27	3543	9	2568
Dec. 25-31	0	1718	0	1985	0	2291	0	2714	0	2676	0	3053	0	2544	0	2203	0	2484	0	2886	0	2442	3	2911	0	2583	3	3546	0	2568

TABLE IV.—SHOWING THE WEEKLY AND PROGRESSIVE VALUES OF ACCUMULATED HEAT BELOW 42° F. IN EACH DISTRICT, DURING THE YEAR 1892.

DATE. — LIMITS OF WEEKS.	Principal Wheat-producing Districts.														Principal Grazing, &c. Districts.																Channel Islands.		Means for the British Islands generally.	
	0. Scotland, N.		1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.		Means for Wheat-producing Districts.		6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Grazing, &c. Districts.							
	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.						
	Day-Degrees below 42° Fahrenheit.																															
1892.																																
Jan. 3-9	73	73	67	67	67	67	73	73	73	73	54	54	67	67	57	57	53	53	43	43	47	47	46	46	49	49	24	24	58	58		
10-16	76	149	83	150	69	136	91	164	95	168	76	130	83	150	65	122	68	121	67	110	57	104	57	103	63	112	29	53	73	131		
17-23	32	181	47	197	47	183	43	207	45	213	26	156	41	191	30	152	36	157	23	133	30	134	26	129	29	141	2	55	35	166		
24-30	13	194	17	214	13	196	28	235	17	230	15	171	18	209	7	159	6	163	10	143	8	142	5	134	7	148	0	55	13	179		
Jan. 31-Feb. 6	36	230	40	254	28	224	26	261	25	255	13	184	26	235	26	185	20	183	8	151	25	167	8	142	18	166	0	55	22	201		
Feb. 7-13	10	240	11	265	12	236	15	276	11	266	7	191	11	246	4	189	3	186	5	156	0	167	0	142	2	168	0	55	7	208		
14-20	92	332	92	357	88	324	90	366	97	363	69	260	87	333	76	265	76	262	52	208	55	222	46	188	61	229	27	82	74	282		
21-27	36	368	46	403	32	356	33	399	31	394	21	281	33	366	27	292	26	288	8	216	13	235	11	199	17	246	0	82	25	307		
Feb. 28-Mar. 5	54	422	60	463	53	409	62	461	60	454	55	336	58	424	49	341	50	338	50	266	46	281	37	256	46	292	29	111	52	359		
Mar. 6-12	76	498	74	537	71	480	82	543	79	533	71	407	75	499	62	403	71	409	61	327	59	340	48	284	60	352	36	147	68	427		
13-19	39	537	48	585	34	514	35	578	38	571	33	440	38	537	33	436	28	437	17	344	17	357	16	300	22	374	5	152	30	457		
20-26	26	563	33	618	33	547	38	616	42	613	27	467	35	572	26	462	27	464	17	361	14	371	15	315	20	394	2	154	27	484		
Mar. 27-April 2	41	604	49	667	42	589	44	660	54	667	23	490	42	614	52	514	43	507	20	381	46	417	48	363	42	436	6	160	42	526		
April 3-9	10	614	13	680	8	597	14	674	13	680	3	493	10	624	4	518	1	508	0	381	0	417	0	363	1	437	0	160	6	532		
10-16	50	664	50	730	39	636	39	713	46	726	21	514	39	663	45	563	35	543	16	397	35	452	22	385	31	468	2	162	35	567		
17-23	31	695	21	751	15	651	18	731	19	745	13	527	18	681	16	579	12	555	14	411	14	466	10	395	13	481	2	164	15	582		
24-30	29	724	29	780	18	669	18	749	23	768	13	540	20	701	15	524	11	566	10	421	12	478	9	404	11	492	0	164	16	598		
May 1-7	14	738	17	797	13	682	18	767	24	792	14	554	17	718	15	609	13	579	12	433	6	484	6	410	10	502	0	164	14	612		
8-14	3	741	4	801	2	684	1	768	4	796	0	554	2	720	0	609	0	579	0	433	0	484	0	410	0	502	0	164	1	613		
15-21	7	748	5	806	0	684	0	768	0	796	0	554	1	721	0	609	0	579	0	433	0	484	0	410	0	502	0	164	0	613		
22-28	0	748	0	806	0	684	0	768	0	796	0	554	0	721	0	609	0	579	0	433	0	484	0	410	0	502	0	164	0	613		
May 29-June 4	0	748	0	806	0	684	0	768	0	796	0	554	0	721	0	609	0	579	0	433	0	484	0	410	0	502	0	164	0	613		
June 5-11	0	748	0	806	0	684	0	768	0	796	0	554	0	721	0	609	0	579	0	433	0	484	0	410	0	502	0	164	0	613		
12-18	6	754	4	810	0	684	3	771	6	802	0	554	3	724	1	610	0	579	0	433	0	484	0	410	0	502	0	164	2	615		
19-25	0	754	0	810	0	684	0	771	0	802	0	554	0	724	0	610	0	579	0	433	0	484	0	410	0	502	0	164	0	615		
June 26-July 2	0	754	0	810	0	684	0	771	0	802	0	554	0	724	0	610	0	579	0	433	0	484	0	410	0	502	0	164	0	615		
July 3-9	0	754	0	810	0	684	0	771	0	802	0	554	0	724	0	610	0	579	0	433	0	484	0	410	0	502	0	164	0	615		
10-16	0	754	0	810	0	684	0	771	0	802	0	554	0	724	0	610	0	579	0	433	0	484	0	410	0	502	0	164	0	615		
17-23	0	754	0	810	0	684	0	771	0	802	0	554	0	724	0	610	0	579	0	433	0	484	0	410	0	502	0	164	0	615		
24-30	0	754	0	810	0	684	0	771	0	802	0	554	0	724	0	610	0	579	0	433	0	484	0	410	0	502	0	164	0	615		
July 31-Aug. 6	0	754	0	810	0	684	0	771	0	802	0	554	0	724	0	610	0	579	0	433	0	484	0	410	0	502	0	164	0	615		
Aug. 7-13	0	754	0	810	0	684	0	771	0	802	0	554	0	724	0	610	0	579	0	433	0	484	0	410	0	502	0	164	0	615		
14-20	0	754	0	810	0	684	0	771	0	802	0	554	0	724	0	610	0	579	0	433	0	484	0	410	0	502	0	164	0	615		
21-27	0	754	0	810	0	684	0	771	0	802	0	554	0	724	0	610	0	579	0	433	0	484	0	410	0	502	0	164	0	615		
Aug. 28-Sept. 3	0	754	0	810	0	684	0	771	0	802	0	554	0	724	0	610	0	579	0	433	0	484	0	410	0	502	0	164	0	615		
Sept. 4-10	0	754	0	810	0	684	0	771	0	802	0	554	0	724	0	610	0	579	0	433	0	484	0	410	0	502	0	164	0	615		
11-17	0	754	0	810	0	684	0	771	0	802	0	554	0	724	0	610	0	579	0	433	0	484	0	410	0	502	0	164	0	615		
18-24	6	760	3	813	0	684	0	771	0	802	0	554	0	724	0	610	0	579	0	433	0	484	0	410	0	502	0	164	0	615		
Sept. 25-Oct. 1	4	764	3	816	0	684	0	771	0	802	0	554	1	725	0	610	0	579	0	433	0	484	0	410	0	502	0	164	1	616		
Oct. 2-8	0	764	3	819	0	684	0	771	5	807	0	554	1	726	0	610	0	579	0	433	0	484	0	410	0	502	0	164	0	615		
9-15	4	768	4	823	0	684	3	774	5	812	2	556	3	729	4	614	0	579	1	434	5	489	5	415	3	505	0	164	3	619		
16-22	29	797	28	851	19	703	13	787	29	841	15	571	21	750	28	642	10	589	17	451	13	502	18	433	17	522	0	164	19	638		
23-29	31	828	34	885	27	730	15	802	22	863	11	582	22	772	27	669	13	602	6	457	18	520	12	445	15	537	0	164	19	657		
Oct. 30-Nov. 5	8	836	17	902	15	745	5	807	20	883	0	582	11	783	7	676	10	612	3	460	8	528	6	451	7	544	0	164	9	666		
Nov. 6-12	0	836	13	915	8	753	12	819	16	899	5	587	11	794	2	678	2	614	4	464	5	533	4	455	3	547	0	164	7	673		
13-19	12	848	32	947	13	766	0	819	6	905	0	587	10	804	13	691	6	620	0	464	12	545	10	465	8	555	0	164	9	682		
20-26	24	872	27	974	8	774	20	839	21	926	9	596	17	821	17	708	10	630	0	464	2	547	0	465	6	561	0	164	12	694		
Nov. 27-Dec. 3	32	904	41	1015	30	804	27	866	29	995	12	608	28	849	31	739	19	649	6	470	23	570	9	474	17	578	0	164	23	717		
Dec. 4-10	74	978	81	1096	62	866	62	928	63	1018	42	650	62	911	56	795	49	698	38	508	40	610	39	513	44	622	9	173	53	770		
11-17	24	1002	32	1128	27	893	36	964	31	1049	11	661	27	938	12	807	13	711	4	512	12	622	3	516	9	631	0	173	18	788		
18-24	25	1027	28	1156	18	911	20	984	23	1072	14	675	21	959	18	825	15	726	1	513	0	622	0	516	7	638	0	173	14	802		
Dec. 25-31	64	1091	93	1249	93	1004	100	1084	118	1190	84	759	97	1056	71	896	86	812	55	568	50	672	32	548	59	697	30	203	78	880		

TABLE V.—SHOWING THE WEEKLY AND PROGRESSIVE NUMBERS OF HOURS OF BRIGHT SUNSHINE IN EACH DISTRICT, REGISTERED DURING THE YEAR 1892.

DATE. — LIMITS OF WEEKS.	0. Scotland, N.		Principal Wheat-producing Districts.												Principal Grazing, &c. Districts.												Channel Islands.		Means for the British Islands generally.	
			1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.		Means for Wheat-producing Districts.		6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Grazing, &c. Districts.					
	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.
	Numbers of Hours of Bright Sunshine.																													
1892.																														
Jan. 3-9	5	5	12	12	14	14	15	15	18	18	17	17	15	15	16	16	13	13	14	14	14	14	13	13	14	14	12	12	15	15
10-16	8	13	8	20	5	19	11	26	10	28	14	31	10	25	10	26	10	23	20	34	13	27	18	31	14	28	14	26	12	27
17-23	2	15	0	20	1	20	1	27	3	31	8	39	3	28	0	26	2	25	7	41	0	27	5	36	3	31	3	29	3	30
24-30	7	22	14	34	12	32	15	42	13	44	13	52	13	41	9	35	9	34	17	58	8	35	9	45	10	41	16	45	11	41
Jan. 31-Feb. 6	10	32	19	53	22	54	23	65	18	62	15	67	18	59	19	54	17	51	17	75	14	49	16	61	16	57	9	54	17	58
Feb. 7-13	6	38	19	72	27	81	13	78	15	77	9	76	17	76	12	66	16	67	14	89	6	55	6	67	11	68	5	59	14	72
14-20	20	58	18	90	14	95	20	98	18	95	19	95	18	94	20	86	16	83	17	106	18	73	18	85	18	86	18	77	18	90
21-27	22	80	8	98	5	100	10	108	8	103	17	112	10	104	9	95	21	104	26	132	13	89	17	102	18	104	26	103	14	104
Feb. 28-Mar. 5	22	102	9	107	8	108	4	112	7	110	13	125	8	112	22	117	19	123	23	158	18	107	20	122	21	125	23	126	14	118
Mar. 6-12	26	128	23	130	24	132	21	133	24	134	30	155	24	136	32	149	24	147	36	194	39	137	33	160	32	157	42	168	28	146
13-19	30	158	28	158	34	166	37	170	35	169	39	194	35	171	23	172	27	174	35	229	21	158	20	180	25	182	46	214	30	176
20-26	22	180	35	193	40	206	23	193	23	192	25	220	29	200	25	197	32	206	32	261	10	168	21	201	24	206	37	251	21	202
27-Apr. 2	43	223	49	242	46	252	47	240	50	242	47	267	48	248	52	249	55	261	64	325	57	225	66	267	59	265	51	302	54	256
April 3-9	38	261	33	275	32	284	72	312	56	298	72	339	53	301	35	284	42	303	63	388	37	262	43	310	44	309	73	375	49	305
10-16	48	309	51	326	44	328	37	349	43	341	48	387	45	346	49	333	52	355	51	439	58	320	64	374	55	364	50	425	50	355
17-23	38	347	59	385	44	372	41	390	41	382	37	424	44	390	41	374	43	398	44	483	34	354	33	413	40	404	36	461	42	397
24-30	35	382	38	423	44	416	45	435	50	432	50	474	45	435	61	435	56	454	55	538	50	404	50	463	54	458	49	510	49	446
May 1-7	47	429	54	477	44	460	34	469	39	471	40	514	42	477	55	490	47	501	49	587	39	443	43	505	47	505	71	581	45	491
8-14	45	474	52	529	57	517	58	527	59	530	64	578	58	535	49	539	61	562	73	660	47	490	55	561	57	562	76	657	57	548
15-21	30	504	36	565	35	552	38	565	38	568	43	621	38	573	42	581	30	592	43	703	29	519	32	593	35	597	64	721	37	585
22-28	29	533	30	595	17	569	44	609	30	598	50	671	34	607	18	599	18	610	15	718	28	547	29	622	21	618	54	775	27	612
May 29-June 4	19	552	41	636	50	619	72	681	56	654	66	737	57	664	33	632	40	650	51	761	37	584	42	664	40	658	63	838	49	661
June 5-11	37	589	51	687	56	675	68	749	74	728	73	810	65	729	45	677	67	717	69	838	47	631	58	722	57	715	71	909	61	722
12-18	32	621	38	725	36	711	33	782	39	767	40	850	37	766	62	739	54	771	53	891	57	688	47	769	55	770	69	978	46	768
19-25	42	663	30	755	28	739	41	823	37	804	41	891	35	801	41	780	44	815	42	933	36	724	37	806	40	810	44	1022	37	805
June 26-July 2	39	702	48	803	31	770	57	880	45	849	64	955	49	850	40	820	35	850	37	970	43	767	49	845	39	849	70	1092	44	849
July 3-9	14	716	29	832	42	812	55	935	45	894	60	1015	46	896	30	850	38	888	41	1011	34	801	30	885	36	885	74	1166	41	890
10-16	38	754	22	854	15	827	17	952	9	903	31	1046	19	915	38	888	25	913	39	1050	27	828	23	908	30	915	60	1226	25	915
17-23	25	779	29	883	24	851	39	991	30	933	40	1086	33	948	40	928	36	949	47	1097	26	854	28	936	36	951	61	1287	34	949
24-30	52	831	41	924	33	884	36	1027	42	975	54	1140	41	989	49	977	47	996	65	1162	42	895	55	991	52	1003	41	1328	47	996
July 31-Aug. 6	22	853	35	959	24	908	39	1066	34	1009	44	1184	35	1024	45	1022	31	1030	44	1206	25	921	21	1012	34	1037	69	1397	35	1031
Aug. 7-13	26	879	27	986	25	933	38	1104	31	1040	41	1225	33	1057	28	1050	27	1057	35	1241	27	948	24	1036	28	1065	60	1457	30	1061
14-20	21	900	34	1020	28	961	46	1150	43	1083	45	1270	39	1096	38	1088	35	1093	48	1290	28	976	30	1066	36	1101	53	1510	38	1099
21-27	19	919	33	1053	36	997	49	1199	44	1127	44	1314	41	1137	32	1120	27	1120	38	1328	23	999	20	1086	28	1129	46	1556	34	1133
Aug. 28-Sept. 3	21	940	27	1080	29	1026	35	1234	32	1159	35	1349	32	1169	24	1144	25	1145	31	1359	24	1023	28	1114	26	1155	41	1600	29	1162
Sept. 4-10	21	961	33	1113	35	1061	32	1266	27	1186	34	1383	32	1201	37	1181	29	1174	22	1381	27	1050	23	1137	28	1183	33	1633	30	1192
11-17	9	970	17	1130	26	1087	40	1306	32	1218	41	1424	31	1232	23	1204	24	1198	35	1416	19	1069	28	1165	26	1209	53	1686	29	1221
18-24	26	996	32	1162	22	1109	18	1324	17	1235	31	1455	24	1256	30	1234	22	1220	25	1441	23	1091	20	1185	24	1233	44	1730	24	1245
Sept. 25-Oct. 1	12	1008	23	1185	30	1139	33	1357	30	1265	22	1477	28	1284	21	1255	25	1245	24	1465	28	1119	34	1219	26	1259	28	1758	27	1272
Oct. 2-8	6	1014	8	1193	13	1152	14	1371	24	1289	20	1497	16	1300	11	1266	17	1262	29	1494	13	1132	14	1233	17	1276	31	1789	17	1289
9-15	15	1029	11	1204	16	1168	21	1392	25	1514	26	1523	20	1320	25	1291	19	1281	29	1523	19	1151	29	1262	24	1300	21	1112	22	1311
16-22	17	1046	16	1220	22	1190	23	1415	28	1342	31	1554	24	1344	29	1320	26	1307	39	1562	25	1176	37	1299	31	1331	32	1842	27	1338
23-29	18	1064	23	1243	17	1207	22	1437	21	1363	24	1578	21	1365	22	1342	22	1329	20	1582	28	1204	26	1325	24	1355	17	1859	23	1361
Oct. 30-Nov. 5	8	1072	20	1263	26	1233	19	1456	22	1385	12	1590	20	1385	24	1366	27	1356	26	1628	37	1241	41	1366	31	1386	15	1874	26	1387
Nov. 6-12	6	1078	12	1275	5	1238	5	1461	16	1401	13	1603	10	1395	10	1376	8	1364	21	1629	12	1253	15	1381	13	1399	16	1890	11	1398
13-19	5	1083	5	1280	5	1243	8	1469	5	1406	8	1611	6	1401	8	1384	7	1371	13	1642	12	1265	13	1394	11	1410	10	1900	8	1406
20-26	13	1096	4	1284	0	1243	1	1470	2	1408	4	1615	2	1403	4	1388	4	1375	3	1645	5	1270	8	1402	5	1415	11	1910	4	1410
Nov. 27-Dec. 3	5	1101	13	1297	7	1250	13	1483	13	1421	14	1629	12	1415	8	1395	12	1387	10	1655	7	1277	7	1409	9	1424	8	1918	10	1430
Dec. 4-10	2	1103	18	1310	18	1268	21	1504	19	1440	23	1652	19	1434	13	1409	14	1401	24	1679	11	1288	15	1424	15	1439	23	1941	17	1447
11-17	2	1105	7	1317	13	1281	8	1512	10	1450	8	1660	9	1443	8	1417	9	1410	12	1691	5	1293	8	1432	8	1447	8	1949	9	1446
18-24	2	1107	7	1324	8	1289	9	1521	5	1455	6	1666	7	1450	1	1418	5	1415	3	1694	3	1296	1	1433	3	1450	4	1953	5	1451
Dec. 25-31	3	1110	10	1334	11	1300	10	1531	14	1469	18	1684	13	1463	2	1420	17	1432	18	1712	10	1306	16	1449	13	1463	35	1988	13	1464

TABLE VI.—SHOWING THE WEEKLY AND PROGRESSIVE VALUES FOR THE PERCENTAGES OF THE POSSIBLE DURATION OF BRIGHT SUNSHINE IN EACH DISTRICT, WHICH WAS ACTUALLY RECORDED DURING THE YEAR 1892.

DATE. — LIMITS OF WEEKS.	Principal Wheat-producing Districts.												Principal Grazing, &c. Districts.												Channel Islands.		Means for the British Islands generally.	
	0. Scotland, N.		1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.		Means for Wheat Producing Districts.		6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Grazing, &c. Districts.					
	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.	Weekly.	From Jan. 3/92.
	Percentages of Possible Duration.																											
1892.																												
Jan. 3-9	11	11	25	25	26	26	27	27	34	34	31	31	29	29	31	31	26	26	25	25	27	27	25	25	27	27	20	20	28	28
10-16	15	14	16	20	9	18	19	23	17	26	24	24	17	22	18	25	18	24	36	30	23	25	32	28	26	26	25	22	22	24
17-23	3	10	0	13	1	12	2	16	5	19	14	22	5	17	0	16	3	15	11	24	0	17	8	22	4	19	4	16	5	18
24-30	13	11	26	16	21	15	26	19	22	19	22	22	24	18	15	16	15	15	28	25	13	16	16	20	17	18	26	19	21	18
Jan. 31-Feb. 6	17	12	32	20	36	19	36	22	28	22	24	22	31	21	31	19	23	18	27	25	22	17	26	21	27	20	14	17	29	21
Feb. 7-13	10	12	31	22	42	23	19	22	22	22	13	20	23	22	19	19	24	19	21	24	9	16	8	19	16	19	8	16	21	21
14-20	30	15	27	23	21	23	30	23	27	22	28	21	27	22	29	21	24	20	25	24	27	18	26	20	26	21	25	17	27	22
21-27	31	17	12	21	8	21	14	22	11	21	24	22	14	21	12	20	30	21	36	26	22	18	24	21	25	21	35	20	20	21
Feb. 28-Mar. 5	30	19	12	20	11	19	5	19	9	19	17	21	11	20	30	21	25	22	34	27	24	19	26	21	28	22	31	21	20	21
Mar. 6-12	33	21	30	21	30	21	27	21	30	21	37	23	31	21	42	24	31	23	46	29	38	21	48	25	41	24	54	25	37	22
13-19	37	23	34	23	42	23	45	23	43	23	48	26	42	23	38	24	33	25	42	31	25	22	25	25	33	25	56	28	37	24
20-26	26	23	40	25	46	25	28	24	27	24	31	27	34	25	30	25	37	26	37	31	11	21	25	25	28	26	44	30	31	26
Mar. 27-April 2	48	26	55	28	51	28	53	26	56	27	53	29	54	28	39	28	61	30	71	35	64	25	74	30	66	30	57	32	60	29
April 3-9	40	27	26	28	35	29	79	31	61	30	78	34	58	30	38	29	46	32	68	38	40	26	47	31	48	31	80	37	53	31
10-16	49	29	53	31	46	30	40	32	45	31	50	35	47	32	51	31	54	33	54	40	60	30	68	34	58	34	53	38	53	33
17-23	38	30	59	33	45	31	42	33	41	32	38	35	45	33	41	32	43	34	45	40	34	30	40	35	41	34	37	38	43	34
24-30	33	30	26	33	43	32	45	34	49	33	49	36	44	34	59	34	55	35	55	41	49	31	49	36	53	35	50	39	49	35
May 1-7	44	31	50	35	42	33	33	34	38	34	39	37	40	35	52	35	44	36	48	42	37	32	41	36	44	36	70	41	42	36
8-14	41	32	47	35	52	34	54	35	54	35	60	38	54	35	45	36	56	37	69	44	43	33	51	37	53	37	74	43	54	36
15-21	26	31	32	35	31	34	34	35	35	35	40	38	34	35	38	36	27	37	40	43	26	32	29	37	32	37	61	44	33	36
22-28	24	31	26	35	14	33	40	35	27	35	45	39	30	35	16	35	16	35	14	42	25	32	25	36	19	36	50	45	25	36
May 29-June 4	15	30	35	35	43	34	64	37	49	36	58	40	50	36	28	34	35	35	45	42	32	32	37	36	35	36	58	46	43	36
June 5-11	51	30	42	35	47	34	60	38	65	37	64	42	56	37	38	35	58	37	62	43	40	32	50	37	50	37	65	47	53	37
12-18	26	30	31	35	31	34	29	38	34	37	35	41	32	37	52	36	46	37	46	43	48	33	40	37	46	37	62	47	39	37
19-25	34	30	25	34	24	34	36	38	32	37	36	41	31	37	35	35	37	37	37	43	31	33	32	37	34	37	40	47	32	37
June 26-July 2	32	30	40	34	28	33	49	38	39	37	56	42	42	37	34	35	30	37	33	42	36	33	34	37	33	37	62	47	38	37
July 3-9	12	29	24	34	36	33	48	39	39	37	53	42	40	37	25	35	32	36	37	42	29	33	34	37	31	37	67	49	56	37
10-16	32	29	19	33	13	33	15	38	8	36	27	41	16	36	33	35	22	36	35	42	24	32	20	36	27	36	55	49	22	36
17-23	21	29	25	33	21	32	35	38	27	35	36	41	29	36	35	35	32	36	43	42	23	32	25	36	32	36	57	49	31	36
24-30	45	30	36	33	30	32	33	37	39	35	50	42	38	36	44	35	43	36	60	42	38	32	50	36	47	36	39	49	43	36
July 31-Aug. 6	20	29	32	33	23	32	37	37	32	35	42	42	33	36	42	35	31	36	42	42	23	32	19	35	31	36	61	49	32	36
Aug. 7-13	24	29	25	33	23	31	37	37	29	35	40	42	31	36	27	35	26	35	35	42	26	32	23	35	27	36	59	50	29	36
14-20	20	29	34	33	27	31	46	38	43	35	45	42	39	36	38	35	35	35	49	42	27	32	30	35	36	36	53	50	38	36
21-27	18	28	33	33	36	31	50	38	45	36	45	42	42	36	33	35	28	35	39	42	24	31	21	34	29	35	48	50	36	36
Aug. 28-Sept. 3	22	28	28	33	30	31	28	38	35	36	37	42	34	36	26	35	26	35	34	42	25	31	30	34	28	35	47	50	31	36
Sept. 4-10	22	28	36	33	39	31	35	38	29	35	37	42	35	36	40	35	32	35	24	42	29	31	25	34	30	35	37	49	33	36
11-17	10	28	19	32	29	31	46	38	36	35	46	42	35	36	26	35	27	35	40	42	21	31	32	34	29	35	61	50	32	36
18-24	31	28	41	33	26	31	22	38	20	35	36	42	29	36	35	35	25	34	29	41	26	31	23	34	28	35	52	50	28	35
Sept. 25-Oct. 1	15	27	28	32	37	31	40	38	37	35	26	41	34	35	27	34	31	34	29	41	34	31	41	34	32	35	35	49	33	35
Oct. 2-8	8	27	10	32	16	31	18	37	30	33	25	41	20	35	14	34	22	34	37	41	17	31	18	33	22	35	39	49	21	35
9-15	20	27	14	32	21	31	28	37	33	35	35	41	26	35	33	34	25	34	38	41	26	30	38	34	32	35	27	49	29	35
16-22	24	26	23	32	31	31	33	37	39	35	43	41	34	35	42	34	37	34	55	41	35	31	52	34	44	35	44	48	39	35
23-29	27	27	35	32	25	31	22	37	31	35	35	41	32	35	32	34	32	34	29	41	41	31	38	34	34	35	25	48	33	35
Oct. 30-Nov. 5	13	27	33	32	41	31	30	37	34	35	18	40	31	35	38	34	43	34	40	41	58	31	63	34	48	35	22	48	40	35
Nov. 6-12	10	26	21	31	9	31	8	36	26	35	21	40	17	35	17	34	12	34	33	41	20	31	24	34	21	35	25	47	19	35
13-19	9	26	8	31	9	30	13	36	8	34	13	40	10	34	14	34	12	33	20	40	20	31	21	34	17	34	16	47	14	34
20-26	22	26	8	31	0	30	3	36	3	34	7	39	4	34	7	33	8	33	5	40	8	31	13	34	8	34	16	46	6	34
Nov. 27-Dec. 3	10	26	26	31	22	30	23	35	24	34	27	39	27	34	15	33	22	33	18	40	12	30	13	34	16	34	14	46	21	34
Dec. 4-10	5	26	28	31	25	30	40	35	35	34	42	39	36	34	27	33	27	33	43	40	21	30	28	34	29	34	40	46	33	34
11-17	4	26	14	30	26	30	16	35	19	34	14	39	18	34	16	33	17	33	22	40	9	30	15	33	16	34	14	45	17	34
18-24	4	25	14	30	16	30	17	35	9	33	10	38	13	33	2	32	12	33	5	39	6	30	2	33	5	33	7	45	9	33
Dec. 25-Dec. 31	6	25	22	30	21	29	19	35	26	33	33	38	24	33	3	32	34	32	38	39	19	30	30	33	24	33	61	45	24	33